

# A LIST OF THE TYPE-SPECIMENS OF LIBELLULIDAE AND CORDULIIDAE (ODONATA) IN THE BRITISH MUSEUM (NATURAL HISTORY)

By D. E. KIMMINS

## SYNOPSIS

A list of the Libellulid and Corduliid type-specimens in the British Museum (Nat. Hist.) has been prepared. Three hundred and forty-three taxa are dealt with and lectotypes are designated for ninety-seven of these taxa.

## INTRODUCTION

IN 1966, following the bequest to the British Museum (Nat. Hist.) of the Fraser collection of Odonata, the author published a list of Fraser's Odonata types in the BM(NH) collections. This produced valuable information and the present work offers a similar list of the type-specimens of Libellulidae and Corduliidae in our collection. The publication of such lists is advocated by the International Commission on Zoological Nomenclature (Rec. 72D(4)) and the preparation of this list has proved both useful and interesting. Certain discrepancies in the labelling and marking of some of the earlier types have come to light and the opportunity has been taken to designate lectotypes in ninety-three cases in which the descriptions were based upon a series of specimens and a type or holotype was not specified by the original author in print. The word LECTOTYPE, in capital letters, indicates a designation of lectotype in this paper.

This list includes not only Fraser's types, dealt with by Kimmins (1966), but also the small number of Fabrician Libellulid types from the Sir Joseph Banks collection, which were studied by Campion (1917). In both these cases, the original type data is not repeated, but reference is made to the appropriate paper in which it may be found.

The general lay-out follows that of Kimmins (1966), each entry beginning with the specific name (in alphabetical order), author, the genus in which it was described, followed by the date and page and figure references. Full references are given at the end of the paper. Next follows the status of the type specimen and the label data, that of each label being separated from the next by an oblique stroke.

Any comments are given in a second paragraph. Square brackets enclose additional information, such as the completion of abbreviated locality names; [WFK] indicates that a label is in Kirby's writing. Type [McL. label] indicates the small, rectangular type-label, usually on mauve or reddish paper, used by McLachlan. BM Register numbers are not given.

In the case of species described by Calvert (1909), it appears to have been his practice to label as TYPE the example figured. These are to be considered as Holotypes. (Calvert, 1901-08: xxviii).

This list of types was completed in February 1968.

*adolescens* Kirby (*Beblecia*), 1900 : 71-72, fig. 2. LECTOTYPE ♂ (abdominal segments 5-10 missing). Free Town, Sierra Leone, 13.ix.99, E. E. Austen/Beblecia adolescens Kb. type [WFK].

Of the three examples listed by Kirby, only one (the lectotype) bears his determination label, as recorded above, but the other two examples, 1 ♂, 1 ♀, are recognizable by the locality data and are considered to be paralectotypes. No type was designated in print, but the example bearing his determination label has been selected as Lectotype. This specimen has for many years carried a red type label, now replaced by a lectotype label. This taxon is currently considered a synonym of *Crocothemis divisa* Karsch.

*aenea* Kirby (*Zygonidia*), 1905 : 275-277. Holotype ♂. Tonkin/Zygonidia aenea Kirby, ♂ Holotype, D. E. Kimmins det. 1961.

Currently placed as a synonym of *Zygonyx iris* Selys.

*aequalis* Kimmins (ssp. *Rhyothemis phyllis*), 1936 : 78-80, text-fig. 7 and pl. 3. Holotype ♂. New Hebrides, Malekula, Ounua, 21.iii.1929, Miss L. E. Cheesman/Rhyothemis phyllis aequalis Kimmins ♂, det. D. E. Kimmins.

*aethiopica* Kimmins (ssp. *Atoconeura biordinata*), 1958 : 357-358, figs. 7a-c. Holotype ♂. Ethiopia, Segheria, 25.iii.1948, K. M. Guichard/Atoconeura biordinata aethiopica Kim., ♂ Type, D. E. Kimmins det. 1958.

*affinis* Kirby (*Neurothemis*), 1889 : 323, pl. 54, fig. 2. Holotype ♂. Barang/N. affinis type [WFK].

This specimen has lost its BM register number, so that it is not possible to check the accuracy of the locality label 'Barang', which is in Indochina. It is probably wrongly labelled, since the taxon is currently placed as a synonym of *Erythrodiplax funerea* Hagen, a S. American species.

*alcestis* Tillyard (*Rhyothemis*), 1906 : 482-483, pl. 44, fig. 1. Holotype ♀ (lacking head). Kuranda, N. Q., F. P. Dodd, xii.07/Rhyothemis alcestis Till., ♀ TYPE, R.J.T.

Described from a single example. Currently placed in the synonymy of *Rhyothemis braganza* Karsch.

*allogenae* Tillyard (*Agrionoptera*), 1908 : 641-643. LECTOTYPE ♂. Cairns, N. Q., iv.05, E. Allen/Agrionoptera allogenae Till., TYPE, R.J.T./Agrionoptera allogenae Tillyard, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed as a subspecies of *A. papuensis* Selys.

*amaryllis* Selys (*Rhyothemis*), 1878 : 299. Holotype ♂ (lacking head). Menado/Type [McL. label]/Lib. amaryllis ♂ Selys.

The unique holotype was originally in the McLachlan collection. Currently placed as a synonym of *Rhyothemis phyllis snelleni* Selys.

*amazonica* Kirby (*Ephidatia*), 1889 : 331 (pars). LECTOTYPE ♂. Santarem/168/Ephidatia amazonica type [WFK]/Ephidatia amazonica Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

This species was restricted by Ris, 1913 : 1013 to the ♂ and ♀ from Santarem, the ♂ from Para becoming a paratype of *Ephidatia batesi* Ris, 1913. *E. amazonica* Kirby (restr.) is currently considered a synonym of *Iridataphe longipes cubensis* (Scudder).

*amazonica* Kirby (*Fylgia*), 1889 : 344, pl. 51, figs. 2, 3. LECTOTYPE ♂. Para [label replaced, DEK]/Fylgia amazonica type ♂ [WFK]/Fylgia amazonica Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

Kirby's label 'Fylgia amazonica type ♀' had been wrongly attached to an immature ♂ and has been transferred to one of the two ♀ syntypes, both of which lack heads.

*ambiguus* Kirby (*Misthotus*), 1905a : 193. Lectotype ♂ (Kimmens, 1957 : 96-97). C[ape of] G[ood] H[ope]/Misthotus ambiguus cotype [WFK]/Misthotus ambiguus Kirby, ♂ Lectotype, D. E. Kimmins det. 1956.

Currently placed as synonym of *Trithemis dorsalis* (Rambur). The other syntype of *ambiguus* (Transvaal) was placed by Longfield (1936 : 490) as a synonym of *Trithemis risi* Longfield (1936 : 490).

*anomala* Kirby (*Anatya*), 1889 : 338, pls. 53, fig. 9 and 57, fig. 7. LECTOTYPE ♂. Para/3/Anatya anomala type [WFK]/Anatya anomala Kirby, Lectotype, D. E. Kimmins det. 1967. Currently placed as a synonym of *Anatya guttata* (Erichson).

*anomala* Pinhey (*Trithemis*), 1955 : 38–39, fig. 8. Holotype ♂. Lake Chila, Abercorn, N. R., iv. 1954, E. Pinhey/Trithemis anomala Pinh. 1954, Holotype/Male and Female in Copula.

*apicalis* Fraser (ssp. *Hylaeothemis fruhstorferi*), 1924. Kimmins, 1966 : 178–179.

*apicalis* Kirby (*Rhyothemis*), 1889 : 319, pl. 51, fig. 5. Holotype ♀. Aneit[yum], Wallace/apicalis type [WFK].

This taxon is currently placed as a subspecies of *Rhyothemis phyllis* (Sulzer).

*apicalis* Kirby (*Untamo*), 1889 : 331, pl. 53, fig. 4. Holotype ♀. Sul[a]/Sula, Wallace/Untamo apicalis type [WFK].

Currently placed as a synonym of *Neurothemis ramburi* (Brauer).

*ardens* McLachlan (*Thecadiplax*), 1894 : 429–430. LECTOTYPE ♂. Ta-chien-lu/Type [McL. label]/Thecadiplax ardens McL./Thecadiplax ardens McL., ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed as a subspecies of *Sympetrum eroticum* (Selys).

*armstrongi* Fraser (ssp. *Rhyothemis regia*), 1956. Kimmins, 1966 : 179.

*arsinoe* Lieftinck (*Diplacina*), 1953 : 171–173, fig. 6. Holotype ♂. Papua, Kokoda, 1,200 ft., viii. 1933, L. E. Cheesman/Diplacina arsinoe sp. n. Holotype, det. M. A. Lieftinck, 1947.

*atra* Pinhey (*Trithemis*), 1961 : 166–167, pl. 11, fig. 14. Holotype ♂. Uganda, Masindi Port, 25.iv.1956, P. S. Corbet/Trithemis atra Pinh., 1956, ♂ Type.

*attenuata* Kirby (*Trithemis?*), 1889 : 328, pl. 53, fig. 2. LECTOTYPE ♂. Amaz[on]/Trithemis attenuata type ♂ [WFK]/Trithemis? attenuata Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

Kirby gives as locality 'Santarem', but the locality labels on the specimens marked by him as ♂ and ♀ types are 'Amaz[on]', and one of the paratypes is labelled as 'Braz.'. In this case I am not interpreting the locality strictly as given in the description but have selected the ♂ labelled by Kirby as type ♂ to be the lectotype. The taxon is currently placed in the genus *Erythrodiplax*.

*aurea* Fraser (*Tetrathemis*), 1924. Kimmins, 1966 : 180.

*auricolor* Fraser (var. of *Notiothemis jonesi*), 1944. Kimmins, 1966 : 181.

*austeni* Kirby (*Perithemis*), 1897 : 602, pl. 12, figs. 4, 5. LECTOTYPE ♂. Manaos, 11.ii.96, ♂/Manaos, Brazil, 11.ii.96, E. E. Austen/austeni [WFK]/Perithemis austeni Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

*austeni* Kirby (*Thermorthemis*), 1900 : 72–73, pl. 2, figs. 1, 1a. LECTOTYPE ♂. W. Afr[ica]/Thermorthemis austeni ♂ [WFK].

Kirby based his description upon five males, four from W. Africa (without other locality) and one male, one female from Sierra Leone. Three of the W. African males have been traced and also the male and female from Sierra Leone. This taxon is currently placed as *Orthetrum austeni* (Kirby).

*australis* Kirby (*Brachydiplax*), 1894 : 18–19. Holotype ♂. Queensland, Turner/australis Kb. type [WFK].

*australis* Kirby (*Brachymesia*), 1889 : 330. Holotype ♂. 'Sydney, N.S.W.'/australis type [WFK].

Locality label believed to be incorrect and the taxon is currently placed in the synonymy of *Brachymesia furcata* Hagen, a South American species.

*azorensis* Gardner (ssp. *Sympetrum fonscolombei*), 1958 : 791–792. Holotype ♂. Azores, Pico 13, 17.viii.52, paired, leading, J. D. Carthy/Sympetrum fonscolombei azorensis Gardner, Type ♂, E. Gardner det.

The holotype ♂ and allotype ♀ were taken paired.

**azteca** Calvert (*Tauriphila*), 1906 : 297, 298. Holotype ♂ (somewhat teneral). Guadaljaro, Jalisco, July, Schumann/Tauriphila azteca Calv. TYPE. P. P. Calvert det. 1906. B.C.A. Neur., p. 298.

**basalis** Kirby (*Micrathyria*), 1897 : 610–612, pl. 12, fig. 1. LECTOTYPE ♂. W. end of Parana de Buyassu, 16.i.96/Parana de Buyassu, Lower Amazon, 16.i.96, E. E. Austen/basalis [WFK]/Micrathyria basalis Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

Kirby mentions two other localities after his description, Obidos (♂) and Breves (♀) and I consider these three examples to be the syntype series. Three additional males discussed later by Kirby are considered as additional non-syntype material, although one of them bears a Kirby cotype label. The taxon is currently placed in the genus *Erythrodiplax*.

**basilinea** McLachlan (*Libellula*), 1894 : 430–431. LECTOTYPE ♂. Ta-chien-lu/Type [McL. label]/Libellula basilinea McL./Libellula basilinea McL., ♂ Lectotype, D. E. Kimmins det. 1967.

**batesi** Kirby (*Cannacia*), 1889 : 341, pls. 53, fig. 1 and 57, fig. 9. Holotype ♂. Amaz[ons]/Cannacia Batesii type [WFK].

The ending of the specific name has been changed to a single 'i' in accordance with Art. 31. This taxon is currently placed in the genus *Brachymesia*.

**bella** Kirby (*Perithemis*), 1889 : 324, pl. 51, figs. 8, 9. LECTOTYPE ♂. 115/Santarem/bella Kb. ♂ [WFK]/Perithemis bella Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The example in the BM type collection, though bearing Kirby's determination label, was not chosen as lectotype since its locality label is 'Amaz.', whereas the type-locality is specified as 'Santarem'.

**bifida** Fraser (*Tetrathemis*), 1941. Kimmins, 1966 : 182.

**bimacula** Kimmins (*Misagria*), 1943 : 156–159, figs. 1–6. Holotype ♂. R. Demarara, B. Guiana/Misagria bimacula Kim., ♂ TYPE, det. D. E. Kimmins.

**[biolleyi** Calvert (*Orthemis*), 1906 : 233, 237, pl. 9, figs. 36, 37.

The example in BM(NH) is one of the syntypes but is not labelled Type by Calvert. In the circumstances, Ris (1910 : 286–287) should be considered as having selected the ♂ in the Calvert Collection (Costa Rica, Esparta) as Lectotype, and the ♂ in BM(NH) from Bugaba is therefore a paralectotype.]

**blackburni** McLachlan (*Lepthemis*), 1882 : 229–231. LECTOTYPE ♂. Hawaiian Islands/Lepthemis? Blackburni McL./Type [McL. label]/Lepthemis blackburni McLachlan, ♂ Lectotype, D. E. Kimmins det. 1967.

Now placed in the genus *Nesogonia*.

**borneense** Kimmins (*Orthetrum*), 1936a : 70–73, figs. 2, 3. Holotype ♂. Sarawak, Mt. Dulit, 4,000 ft., 22.x.1932. B in cop. A/Oxford Univ. Exped., B. M. Hobby, A. W. Moore & J. Ford/Orthetrum borneense ♂ sp. n., Holotype, det. D. E. Kimmins.

**braueri** Kirby (*Lyriothemis*), 1889 : 332. Holotype ♀. Sula, Wallace, D. E. Kimmins, 1967/W. Borneo [WFK]/L. Braueri type [WFK].

Kirby gives the locality as Sula [Moluccas] and this locality is repeated by Ris (1909 : 108, 111), after his study of the type. When examining this type during the preparation of this paper, it was found to be labelled 'W. Borneo' in Kirby's writing. It is very unlikely that Ris would not have remarked on the discrepancy in the locality label when he studied the type, and one can only assume that at some later date there was been a change of label. I have therefore placed a 'Sula' label above the W. Borneo label. This taxon is currently placed as a synonym of *Lyriothemis cleis* Brauer.

**brevistylum** Kirby (*Orthetrum*), 1896 : 521–522. Holotype ♂. Dobar, Goolis Mts., 4.ii. 1895, L. L[ort-] P[hillips]/Orthetrum(?) brevistylum n.s. [WFK].

Currently placed as a synonym of *Orthetrum taeniolatum* (Schneider).

**broadwayi** Kirby (*Dythemis*), 1894a : 227–228. LECTOTYPE ♂. Trinidad/broadwayi/ Dythemis broadwayi Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed as a synonym of *Dythemis velox* Hagen.

**burmeisteri** Kirby (*Tramea*), 1889 : 316. LECTOTYPE ♂. N.W. India/Burmeisteri Kb. type [WFK]/Tramea burmeisteri Kirby, ♂ Lectotype, det. D. E. Kimmins, 1967.

In addition to the allotype ♀, there are 5 paralectotypes in the BM(NH). The taxon is currently placed as a subspecies of *Trapezostigma basilaris* (Palisot de Beauvois).

**camarense** Kirby (*Orthetrum*), 1889 : 298. Holotype ♂. Cameroons/camarense type [WFK]/Orthetrum camarense Kirby, ♂ Holotype, D. E. Kimmins det. 1967.

**cambridgei** Kirby (*Micrathyria*), 1897 : 608–609, pl. 13, fig. 4. Holotype ♂. Breves, 13.i.96/Breves, Lower Amazon, 13.i.96, E. E. Austen/cambridgei [WFK].

**campioni** Ris (*Allorhizucha*), 1915a : 214–216; Kimmins, 1942 : 47 [selection of holotype]. Lectotype ♂. KaYima, Sierra Leone, 24.vi.1912, Jas. J. Simpson/Allorhizucha nova spec. C, Det. Dr. F. Ris/Allorhizucha campioni Ris, ♂ Type, det. D. E. Kimmins.

**cannaciroides** Calvert (*Dythemis*), 1906 : 272, 276, pl. 8, figs. 43, 44. Holotype ♂. San Isidro, 1,600 ft., *Champion*/Dythemis cannaciroides Calv. ♂ TYPE. P. P. Calvert det. 1906. B. C. A. Neur., p. 277. Orig. Pl. viii, figs. 43, 44.

The penis of the lectotype was removed and studied by Dr. K. Buchholz.

**carpenteri** Fraser (*Oxythemis*), 1944. Kimmins, 1966 : 186.

**carpenteri** Fraser (*Tetrathemis*), 1941. Kimmins, 1966 : 186.

**celebensis** Kirby (*Protorthemis*), 1889 : 334–335, pls. 54, fig. 7 and 57, figs. 6, 6a. Holotype ♂. Mak[assar]\*/Celeb[es], Wallace/O. celebensis type [WFK].

**ceylonica** Kirby (*Zygonidia*), 1905 : 273–275. Holotype ♂. Ceylon. E. E. Green/Kandy, ii. 1901 [E. E. Green's writing]/Zygonidia ceylonica Kirby, ♂, D. E. Kimmins det. 1961.

Currently placed as subspecies of *Zygonyx iris* Selys.

**chirinda** Longfield (ssp. *Atoconeura biordinata*), 1953 : 46, pl. 1, figs. 3, B, H. Holotype ♂. Chirinda For., Melsetter Dist., Dept. Agric. S. Rhodesia, 27.xii.1948, J. A. Whellan/Atoconeura biordinata chirinda, Type ♂ subsp. nov., det. Miss C. Longfield.

**chloe** Kirby (*Rhyothemis*), 1894 : 15–16. LECTOTYPE ♀. Queensland, *Turner*/chloe Kirby. type [WFK]/Rhyothemis chloe Kirby, ♀ Lectotype, D. E. Kimmins det. 1967.

The lectotype ♀ is the darker of the two syntypes, with (in the hind wing) the 'dark spot on the subnodal sector, halfway between the dark blotch on the nodus and the clouded tip of the wings' mentioned by Kirby. Currently placed as a subspecies of *Rhyothemis phyllis*.

**chrysobaphes** Ris (*Pseudomacromia*), 1915a : 221–223. LECTOTYPE ♂. Sierra Leone, Sandea, 14.vi.1912, J. J. Simpson/Pseudomacromia nova spec. d, Type ♂, Det. Dr. F. Ris/ Pseudomacromia chrysobaphes Ris, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed in the genus *Zygonyx*.

**cingulata** Kirby (*Nesoxenia*), 1889 : 336, pl. 53, fig. 8. LECTOTYPE ♀. [Solomon Islands], Alu/Nesoxenia cingulata type [WFK]/Nesoxenia cingulata Kirby, ♀ Lectotype, D. E. Kimmins det. 1967.

The syntype series also contained 1 ♂ (incomplete) and 1 ♀. This taxon is currently considered a subspecies of *Nesoxenia mysis* Selys.

**cladophila** Tillyard (*Tetrathemis*), 1908 : 647–648, pl. 14, fig. 5. LECTOTYPE ♂. Cooktown, N. Q., i.08, R. J. Tillyard/Tetrathemis cladophila Till. ♂ TYPE. R. J. T. Tetrathemis cladophila Tillyard, ♂ Lectotype, D. E. Kimmins det. 1967.

\* This label was transcribed by Kirby as Makian, but according to Bradley & Betrem, 1967, *Bull. Brit. Mus. nat. Hist. (Ent.)* 20 (7) : 292, the locality should be Makassar.

**corduliformis** Longfield (*Tetrathemis*), 1936 : 484, figs. 6, A-D. Holotype ♂. Central Africa, Uganda, Bunyoro Distr., Nyamagita Dam, 18.ii.1934, C. E. Longfield/Tetrathemis corduliformis sp. n. Type ♂, det. Miss C. Longfield.

**coryndoni** Fraser (*Lokia*), 1952. Kimmings, 1966 : 187.

**cuprina** Kirby (*Rhyothemis*), 1889 : 320, pl. 51, fig. 6. Holotype ♀. S. Leone/cuprina Kb. type [WFK].

Currently placed as a synonym of *Rhyothemis fenestrina* (Rambur).

**dalei** Tillyard (*Nannodythemis*), 1908a : 449-450, pl. 6, fig. 2. LECTOTYPE ♂. Blue Mts., N.S.W., ii.1908, R. J. Tillyard/Nannodythemis Dalei Till. ♂ TYPE, R. J. T./Nannodythemis dalei Tillyard, ♂ Lectotype, D. E. Kimmings det. 1967.

Currently placed in the genus *Nannophya*.

**darwini** Kirby (*Tramea*), 1889 : 315, pl. 51, fig. 1. LECTOTYPE ♀. Galapagos/Galapagos/28/Darwinii Kb. type [WFK].

The remaining four female syntypes (in bad condition) are still in the B.M. collection. This taxon is currently placed as a synonym of *Trapezostigma cophysa* (Selys).

**davina** Fraser (ssp. *Zygonyx iris*), 1926. Kimmings, 1966 : 188.

**denticauda** Fraser (*Tetrathemis*), 1954. Kimmings, 1966 : 189.

**diamangae** Longfield (*Aethiothemis*), 1959 : 35, 36, fig. 5A. Holotype ♂ (teneral), N. Angola. Lunda Prov., Dundo, iii.1949/Aethiothemis diamangae, Type ♂, det. Miss C. Longfield.

**dispar** Selys (*Trithemis*, ?aberration), 1883 : 107. Holotype ♀. Japan/Type [McL. label]/Trithemis phaon, var. ♀ dispar Selys.

Currently placed as a synonym of *Deielia phaon* (Selys).

**disparilis** Kirby (*Neurothemis*), 1889 : 322-323, pl. 54, fig. 8. LECTOTYPE ♂ (head missing). W. Borneo/N. disparilis ♂ [WFK]/Neurothemis disparilis Kirby, ♂ Lectotype, D. E. Kimmings det. 1967.

**dissocians** Calvert (*Micrathyria*), 1906 : 222, 226, pl. 9, figs. 19-21. LECTOTYPE ♂. Atoyac, Vera Cruz, May, H.H.S[mith]/Micrathyria dissocians Calv. ♂ TYPE. P. P. Calvert det. 1906. B.C.A. Neur., p. 226, Orig. of pl. ix, figs. 19-21/Micrathyria dissocians Calvert, ♂ Lectotype, D. E. Kimmings det. 1967.

Ris (1911 : 440) refers to the Portorico specimen as 'Calvert's Type'. I do not consider this to be a designation of Lectotype, and consider that the data on the above mentioned example makes it clear that Calvert considered it to be the type, especially as the second Vera Cruz example is not marked TYPE.

**distanti** Kirby (*Stoechia*), 1898 : 236-237. LECTOTYPE ♂. Pretoria (W. L. D[istant])/distanti Kirby type [Distant's writing]/Stoechia distantii Kirby, ♂ Lectotype, D. E. Kimmings det. 1967.

Currently placed as synonym of *Trithemis dorsalis* (Rambur).

**donaldi** Lieftinck (*Lanthanusa*), 1955 : 161-164, figs. 5-9. Holotype ♂. N.E. New Guinea, Saiko, 5,500-6,000 ft., Babu River (Upper Waria River), ix-x.1936, D. Shaw-Meyer/Lanthanusa donaldi Lieft. Det. M. A. Lieftinck, 1955. Holotype.

**dorothea** Fraser (ssp. *Agrionoptera insignis*), 1927. Kimmings, 1966 : 189.

**dubia** Fraser (*Porpacithemis*), 1954. Kimmings, 1966 : 190.

**ducalis** Kirby (*Rhyothemis*), 1898 : 230-232. LECTOTYPE ♂. Fort Johnston, Nyassaland, P. Rendall/Rhyothemis ducalis Kirby, ♂ Lectotype, D. E. Kimmings det. 1967.

Two ♂, one ♀ of the four syntypes are from Fort Johnston; the ♀ from Pretoria, though marked 'cotype' by Kirby, was in effect excluded from the syntypes by Kirby's statement (231) 'The specimens from Fort Johnston are to be considered typical.' Currently placed as a synonym of *R. semihyalina* Desjardins.

**eltoni** Fraser (*Phyllothemis*), 1935. Kimmings, 1966 : 191.

*eludens* Tillyard (*Nannophlebia*), 1908 : 645-647, pl. 14, fig. 4. LECTOTYPE ♂. Cairns, N. Q., v.05, E. Allen/*Nannophlebia eludens* Till. ♂ TYPE, R.J.T./*Nannophlebia eludens* Tillyard, ♂ Lectotype, D. E. Kimmins det. 1967.

*equestris* Fabricius (*Libellula*), 1781 : 523. Campion, 1917 : 445.

*equivocata* Kirby (*Thermochoria*), 1889 : 339, pl. 52, fig. 8. Holotype ♂. W. Afr[ica]/*Thermochoria equivocata* type [WFK].

*erichsoni* Kirby (*Trithemis*), 1894 : 263. LECTOTYPE ♂. Amaz./*erichsoni* [WFK]/*Trithemis erichsoni* Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

This specimen was the basis of the drawings and notes sent by the present author to D. J. Borror in Jan. 1935, and referred to in his monograph on *Erythrodiplax*. This taxon is currently placed in synonymy of *Erythrodiplax unimaculata* (De Geer).

*eudoxia* Kirby (*Accaphila*), 1909 : 60. Holotype ♂. Ruwenzori East, alt. 6,000 ft., 30.i.07/ Ruwenzori Exp./*Accaphila eudoxia* Kb. type.

Currently placed in the genus *Atoconeura*.

*eurybria* Selys (*Libellula*), 1878 : 293, 298. Holotype ♂. Menado/Type [McL. label]/Lib. *eurybria* Selys ♂, race de Chinensis? [Selys writing].

Currently placed in the genus *Trapezostigma*.

*exigua* Kirby (*Fylla*), 1889 : 345, pl. 52, fig. 6. LECTOTYPE ♂. Gil[olo]/*Wallace/Fylla exigua* Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The syntype series was found in the museum collection, without type-indication or determination labels by Kirby. One can only presume that as Kirby reduced the taxon to synonymy of *Nannophya pygmaea* Rambur in his Catalogue of Odonata published the following year, he removed his determination labels. The series now contains paralectotypes from Borneo, Gilolo and Morty.

*eximia* Kirby (*Micrathyria*), 1897 : 609, pl. 13, fig. 3. LECTOTYPE ♂. Obydos, 2.ii.96/ Obydos, Lower Amazon, 2.ii.96, E. E. Austen/*eximia* [WFK]/*Micrathyria eximia* Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The lectotype is the specimen which, for many years, has carried a red BM type label. The remaining 3 ♂ syntypes have been labelled paralectotypes. Since Kirby stated that the species was described from four males from Obydos, the male mentioned by him from Para is excluded from the syntype series.

*extraordinata* Fraser (*Atoconeura*), 1950. Kimmins, 1966 : 191.

*falsum* Longfield (ssp. *Orthetrum capense*), 1955 : 26. Holotype ♂. B. E. Africa, Kenya, Thoura Forest, Meru, 600 ft., 30.i.1934, far from water, C. E. Longfield/*Orthetrum capense falsum* Longf., Type ♂, det. Miss C. Longfield.

Currently placed as subspecies of *Orthetrum capicola* Kimmins.

*fasciata* Kirby (*Celithemis*), 1889 : 326, pl. 52, fig. 2. LECTOTYPE ♂. Georgia/*fasciata* Kb. type [WFK]/*Celithemis fasciata* Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

*fasciata* Kirby (*Deielia*), 1892 : 330, pl. 53, fig. 6. McLachlan, 1892 : 177-178. Holotype ♀. 137/Sandw[ich] Is., Beechey/Loo Choo Is., Voy. of 'Blossom', See McLachlan, *An. Mag. Nat. Hist.* (6) x. p. 177 (1892)/*Deielia fasciata*, type [WFK].

As explained by McLachlan (1892), the original locality label on this specimen appears to have been incorrect, as the insect has not been refound in the Hawaiian Islands. It does occur in the Loo Choo (Ryukyu) Islands, which were also visited by the 'Blossom', and it is considered most likely that the example came from these islands. The taxon is currently considered a synonym of *Deielia phaon* (Selys).

*ferruginata* Fabricius (*Libellula*), 1781 : 521. Campion, 1917 : 445.

*fitzgeraldi* Pinhey in Longfield (*Nesciothemis*), 1955 : 61-63, figs. 10 B, D, F; Pinhey, 1955 : 30-32, fig. 6. Holotype ♂. Lake Chila, Abercorn, N. R., 31.i.54, D. Vesey-Fitzgerald/*Orthetrum(?) fitzgeraldi* Pinh. 1954. Holotype/*Nesciothemis fitzgeraldi* (Pinhey), det. Miss C. Longfield.

The type of *Orthetrum(?) fitzgeraldi* Pinhey was presented to the BM(NH) when the manuscript was sent to press. Publication was unavoidably delayed, and in the belief that Pinhey's paper was due to appear, Miss Longfield included a description of *fitzgeraldi* in her paper on African *Orthetrum*, placing it in her new genus *Nesciothemis*, the publication of which unfortunately antedated Pinhey's paper.

**flava** Longfield (*Monardithemis*), 1947 : 23-25, figs. 9-10. Holotype ♂ (original designation as type). Kalukembé, Dec./Angola, Miss. sc. suisse, 1932-1933/Monardithemis flava genotype ♂, det. Miss C. Longfield.

**flavescens** Kirby (*Miathyria*), 1897 : 600-601, pl. 13, fig. 2. LECTOTYPE ♂. Santarem/113 ♂/ Miathyria flavescens Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The lectotype ♂, which has for many years carried a red BM type-label, has no determination label by Kirby, but the locality label agrees with the type-data and there is no doubt that it is one of the syntypes. On the other hand, an example bearing Kirby's label 'Miathyria flavescens K. cotype' is from Para, not Santarem and is from the Saunders collection (not Bates) and cannot therefore be a syntype.

**flavescens** Kirby (*Tetrathemis*), 1889 : 343, pl. 52, fig. 4. LECTOTYPE ♂. Sar[awak]/Wallace/T. flavescens type [WFK]/Tetrathemis flavescens Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

**flavidulum** Kirby (*Orthetrum*), 1898 : 238. LECTOTYPE ♀. Pretoria, W. L. D.[istant]/Orthetrum flavidulum Kirby, ♀ Lectotype, D. E. Kimmins det. 1967.

Of the four examples (listed by Kirby as females), the example from the Pienaars River, iii. 1894 proves to be a ♂. Currently placed as synonym of *Orthetrum abbotti* Calvert.

**flavifrons** Kirby (*Chalcostephia*), 1889 : 337. Holotype ♂. Angola/Chalcostephia flavifrons type.

**flavopicta** Kirby (*Orthemis*), 1889 : 332-333, pls. 54, fig. 1 and 57, fig. 5. LECTOTYPE ♂. Para/43/Orthemis flavopicta type/Orthemis flavopicta Kirby, Holotypus präp. Dr. Buchholz/Orthemis flavopicta Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

From the syntype series of 4 ♂, 1 ♀, the ♂ bearing Kirby's type label has been chosen as lectotype.

**foliata** Kirby (*Belonia*), 1889 : 333, pl. 54, fig. 4. Holotype ♀ (by original designation). [Mexico], Dueñas/foliata Kb. type [WFK].

Currently placed in the genus *Libellula*. The ♂ from Guatemala, doubtfully referred to *Belonia foliata* by Kirby, is now considered to be a synonym of *Libellula herculea* Karsch.

**fraseri** Pinhey (*Olpogastra*), 1955 : 39-40, pl. 3, fig. 1, text-fig. 8. Holotype ♂. Aswa R., Acholi, Uganda, March 1952, T. H. E. Jackson. Olpogastra fraseri Pinh. 1954, Holotype.

Currently placed in the genus *Zygonoides* Pinhey.

**frontalis** Kirby (*Lyriothemis*), 1889 : 332. Holotype ♀. Sul[a]/Sula, Wallace/L. frontalis type [WFK].

Currently placed as a synonym of *Lyriothemis cleis* Brauer.

**fulgens** Kirby (*Rhyothemis*), 1889 : 322. Holotype ♂. Sar[awak]/fulgens, Kb. type [WFK].

**gamblesi** Longfield (*Oxythemis*), 1959 : 36-38, figs. 5 B, C. Holotype ♂. S. Nigeria, Ikorodu, Ogun Delta, 26.ii.1956, R. M. Gambles/Oxythemis gamblesi Type ♂, det. Miss C. Longfield.

**gardneri** Fraser (*Hylaeothemis*), 1927. Kimmins, 1966 : 194.

**grenadensis** Kirby (*Brechmorhoga*), 1894b : 265. LECTOTYPE ♂. Grenada/106/grenadensis [WFK]/Brechmorhoga grenadensis Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed as a subspecies of *Brechmorhoga praecox* (Hagen).

[**hageni** Kirby (*Micrathyria*), 1890 : 41]

This name was proposed for *Dythemis didyma* Hagen, 1861, nec Selys, 1857 and the type should therefore be selected from Hagen's material.

**hyalinum** Kirby (*Orthetrum*), 1886 : 326–327, pl. 33, figs. 5, 6. LECTOTYPE ♂. N.W. Ind[ia]/Campbellpore, 14.xi.85, 7/hyalinum Kirby. ♂ type [WFK]/*Orthetrum hyalinum* Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed as a synonym of *Orthetrum taeniolatum* (Schneider).

**hyalina** Kirby (*Tetrathemis*), 1889 : 342, pl. 56, fig. 8. Holotype ♂ (lacking abdominal segments 5–10). Borneo/T. *hyalina* type [WFK].

Currently placed as subspecies of *Tetrathemis irregularis* Brauer.

**icteroptera** Selys (*Libellula*), 1857, in Sagra, *Hist. Cuba*, 7 : 190.]

This species was briefly differentiated as a race in a note on *Libellula metella* Selys; the type locality being given as Buenos Ayres. The McLachlan collection included an example determined by Selys as *Lib. icteroptera* Selys ♀, to which McLachlan had added a type label. This cannot however be the type, as its locality label is Minas Geraes.

**immaculata** Fraser (*Zygonyx*), 1933. Kimmins, 1966 : 196.

**imperatrix** Selys (*Rhyothemis*), 1887 : 53–54. Holotype ♂. Ryukyu [Loo Choo], vi–viii. 1887 [Pryer]/*Rhyothemis imperatrix* Selys, nov. sp.? ou race de splendida, R. ♂, Loo Choo [Selys' writing].

Selys saw originally only this one example, but McLachlan subsequently received three females with the same locality data (collected by Pryer), of which one was given to Selys and was described by him (1888 : 1); the other two females are now in BM(NH).

**indica** Fabricius (*Libellula*), 1781 : 521. Campion, 1917 : 444.

**indica** Fraser (*Hylaeothemis*), 1946. Kimmins, 1966 : 196.

**indica** Kirby (*Brachydiplax*), 1889 : 329, pl. 54, fig. 9. LECTOTYPE ♂. N. Ind[ia]/B. *indica* ♂ type [WFK]/*Brachydiplax indica* Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The mature ♂ has been chosen as lectotype, as this example has been segregated in the type-collection since 1940.

**infuscatum** Selys (*Diplax*), 1883 : 90. LECTOTYPE ♂. Japan/Type/*Diplax infuscata* Selys, ♂ Japon/*Diplax infuscata* Selys, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed in the genus *Sympetrum*.

**insignis** Kirby (*Zygonidia*), 1900a : 533–534, pl. 12, fig. 1. LECTOTYPE ♂. 5-fingered Mt., Hainan, J. T. Thomasson/*Zygonidia insignis*, type [WFK]/*Zygonidia insignis* Kirby, ♂ Lectotype, D. E. Kimmins det., 1967.

Currently placed as a synonym of *Zygonyx iris* Selys.

**insularis** Kirby (*Agrionoptera*), 1889 : 336–337. LECTOTYPE ♂. [Solomon Is.] Santa Anna/*Agrionoptera insularis* ♂ type [WFK]/*Agrionoptera insularis* Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed as a subspecies of *Agrionoptera insignis* (Rambur).

**insularis** Kirby (*Cannaphila*), 1889 : 341. Lectotype ♀ (Ris, 1910 : 295). Hayti/*Cannaphila insularis* Kirby, ♀ Lectotype, F. Ris design. 1910 [D.E.K. hand].

I consider that Ris' action (1910 : 295) in citing 'British Museum: 1 ♀ juv. Hayti (Kirby's Type)' is equivalent to selection of a lectotype. There is one other ♀ in BMNH, which bore Kirby's determination *Cannaphila insularis*, but this has a locality label St. Dom. [Santo Domingo], which is in Haiti and was probably a syntype. This is now labelled paralectotype. I have been unable to trace the ♂ syntype referred to by Kirby.

Kirby's statement 'Hab. Haiti (types in British Museum); Jamaica (Dublin Museum)' eliminated the Dublin Museum example(s) from consideration as lectotype.

**intensa** Kirby (*Perithemis*), 1889 : 326, pl. 51, fig. 7. Holotype ♂ (abd. segs. 9–10 missing). Mex[ico]/*intensa* Kb. type [WFK].

**intermedia** Fraser (*Protorthemis*), 1936. Kimmins, 1966 : 198.

*internum* McLachlan (var. of *Orthetrum japonicum*), 1894 : 431-432. LECTOTYPE ♂. Ta-chien-lu/O. japonicum var. *internum* McL./*Orthetrum japonicum internum* McL., ♂ Lectotype, D. E. Kimmens det. 1967.

Currently placed as *Orthetrum japonicum internum* McL.

*iridescens* Kirby (*Urothemis*), 1898 : 235. LECTOTYPE ♂ (abd. segs. 6-10 missing). Fort Johnston, Nyassaland, *P. Rendall*/iridescens Kirby type [WFK]/*Urothemis iridescens* Kirby, ♂ Lectotype, D. E. Kimmens det. 1967.

Currently placed as synonym of *Urothemis edwardsi* (Selys).

*isa* Fraser (ssp. of *Zygonyx iris*), 1926. Kimmens, 1966 : 198.

*isis* Fraser (*Zygonyx*), 1924. Kimmens, 1966 : 198.

*julia* Kirby (*Orthetrum*), 1900 : 75-77, pl. 2, fig. 3. LECTOTYPE ♂ (abd. segs. 9-10 missing). Sierra Leone/*Orthetrum julia* type [WFK].

Kirby writes (: 77) 'The species is described from four specimens from Sierra Leone, two of which were collected by Mr. Austen on Aug. 26 and Sept. 11 (1899).' The example designated as Lectotype is the only one bearing Kirby's determination label. The allotype female has for many years borne a museum type label but now has no locality label (?Sierra Leone, 42.31). Of the listed examples collected by Austen, one (without abdomen), labelled 'Free Town, Sierra Leone, 26. viii. 1899, E. E. Austen' has been located but the other is missing.

*kalai* Longfield (ssp. *Orthetrum stemmale*), 1936 : 487, 488, fig. 7. Holotype ♂. S. Rhodesia, Victoria Falls, Zambezi River, Kalai Island, 7.iv.1936, C. E. Longfield/*Orthetrum stemmale* kalai sp. nov. Type ♂, det. Miss C. Longfield.

*kalula* Kirby (*Trithemis*), 1900 : 69, pl. 2, figs. 2, 2a. LECTOTYPE ♂. Free Town, Sierra Leone, 13.ix.99, E. E. Austen/*Trithemis kalula* Kb. type [WFK].

Kirby lists four males, but only three can now be traced in the collections; of these, only the lectotype bears Kirby's determination label. This specimen has for many years carried a red type label and has been considered to be the type. The two remaining males are considered paralectotypes.

*kenya* Longfield (spp. *Atoconeura biordinata*), 1953 : 46, pl. 1, figs. 5, 9, C, G. Holotype ♂. B.E. Africa, Kenya, Meru, 6,000 ft., on swift stream, 29.i.1934, C. E. Longfield. *Atoconeura biordinata kenya*, Type ♂ subsp. n., det. Miss C. Longfield.

*kerri* Fraser (*Amphithemis*), 1933. Kimmens, 1966 : 198.

*lacustris* Kirby (*Trithemis*?), 1889 : 329. Holotype ♂. [Central Africa] Wadelai, 27.i.1887 [Emin Pasha]/*lacustris* Kb. type [WFK].

Currently placed in the genus *Brachythemis*.

*lankana* Kirby (*Rhyothemis*), 1893 : 549-550. Holotype ♂. Udagama, 26.iv.92/Ceylon, Yerbury, (on reverse) *lankana* type/*Rhyothemis lankana* Kirby, ♂ Holotype, D. E. Kimmens det. 1967.

*leakeyi* Pinhey (*Lokithemis*), 1955 : 34-35, pl. 3, figs. 3, 4, 6, and text-fig. 7. Holotype ♂. Lake Chila, Abercorn, N. Rhodesia, 31.i.54, D. Vesey Fitzgerald/*Lokithemis leakeyi* Pinh. Holotype.

[*levis* Calvert (*Orthemis*), 1906 : 233, 238, pl. 9, figs. 38, 39.]

No example in our B.C.A. series was marked TYPE by Calvert and our specimens are therefore considered as syntypes. The true type is probably in some other collection.

*lewisi* Selys (*Lyriothemis*), 1883 : 96-97. LECTOTYPE ♂. Japan, *Lewis*/*Lyriothemis lewisi* Selys ♂, Japon/*Lyriothemis lewisi* Selys, ♂ Lectotype, D. E. Kimmens det. 1967.

Ris (1909 : 119) in the list of material dealt with cites '1 ♂ Japon (Pryer, Selys Type der *L. lewisi*)'; this cannot be accepted as a designation of lectotype, since Selys limits his material to 'Japon, par M. G. Lewis, communiquée par MacLachlan (coll. MacLachlan, Selys)'. I have therefore designated the above specimen as Lectotype. Currently placed as a synonym of *L. pachygaster* (Selys).

**lieftincki** Fraser (*Rhodothemis*), 1954. Kimmins, 1966 : 201.

**lifuana** Kimmins (ssp. *Agrionoptera insignis*), 1953 : 243-244, figs. 1-3. Holotype ♂.

Lifu/Agrionoptera insignis lifuana Kim. ♂ Holotype, D. E. Kimmins det. 1951.

Currently placed as a subspecies of *Agrionoptera papuensis*.

**longipennis** Kirby (*Belonia*), 1889 : 334. Holotype ♀. Cuença/longipennis Kb. type [WFK].

Currently placed as a synonym of *Libellula herculea* Karsch.

**lorti** Kirby (*Orthetrum*), 1896 : 522-523. Holotype ♀ (lacking abd. segs. 6-10). Dobar,

Goolis Mts., 4.ii.1896, L. L[orti] P[hillips]/Orthetrum lorti.

Currently placed as synonym of *Crocothemis erythraea* (Brullé).

**machadoi** Longfield (*Orthetrum*), 1955 : 35-39, figs. 5, A, E, J. Holotype ♂. N.E. Angola,

Dundo, Lunda Distr., 13.xii.1947/Orthetrum machadoi Type ♂, in cop. with type ♀, det.

Miss C. Longfield.

**macrostigma** Longfield (*Orthetrum*), 1947 : 25-27, fig. 11. Holotype ♂. Lunda, sept./

Angola Miss. sc. suisse, 1932-1933/Orthetrum macrostigma Type ♂, det. Miss C. Longfield.

**madagascariensis** Kirby (*Tramea*), 1889 : 317. Holotype ♂. Betsileo, Madag. [WFK]/

madagascariensis Kb. type [WFK].

This taxon is currently placed as a synonym of *Trapezostigma limbata* (Desj.).

**malabarica** Fraser (ssp. *Zygonyx iris*), 1926. Kimmins, 1966 : 203.

**malcolmi** Fraser (*Brachydiplex*), 1922. Kimmins, 1966 : 203.

**marginata** Fabricius (*Libellula*), 1781 : 523. Campion, 1917 : 445.

**marshalli** Kirby (*Misthotus*), 1905a : 192-193. LECTOTYPE ♂. Salisbury, Mashonaland,

Marshall/5. Salisbury, Nov. 1903, in copula. G. A. K. M[arshall]/marshalli Kb. type

[WFK]/Misthotus marshalli Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The 'still more immature male' referred to by Kirby cannot be traced. Currently placed as a synonym of *Trithemis dorsalis* (Rambur).

**maya** Calvert (*Dythemis*), 1906 : 272, 275, pl. 8, fig. 45. Holotype ♂. San Geronimo, Vera Paz, *Champion*/Dythemis maya Calv. TYPE ♂. P. P. Calvert det. 1906. B. C. A. Neur., p. 275. Original of Pl. viii, fig. 45.

The penis of the lectotype was removed and studied by Dr. Buchholz.

**metallica** Fraser (ssp. of *Zygonyx iris*), 1931. Kimmins, 1966 : 203.

**mildredae** Fraser (ssp. of *Zygonyx iris*), 1920. Kimmins, 1966 : 204.

**monteiroi** Kirby (*Thermorthemis*), 1900 : 73. Holotype ♀. Angola/monteiroi Kb. type [WFK].

Currently considered a synonym of *Orthetrum austeni* (Kirby).

**multipunctata** Kirby (*Dythemis*), 1894b : 265-266. LECTOTYPE ♂ (left fore wing missing). St. Vincent/Pools near Bannonallie, Jan. 12/multipunctata [WFK]/Dythemis multipunctata Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

I have chosen as lectotype the ♂ which has for many years carried a BM red type label and of which the penis was removed and studied by Dr. K. Buchholz.

**multipunctata** Kirby var. (*Dythemis*), 1894b : 266. LECTOTYPE ♂. Grenada/235/Dythemis multipunctata var. Kirby, ♂ Lectotype, D. E. Kimmins det. 1967/Dythemis sterilis Hagen, det. D. E. Kimmins.

Currently placed as a synonym of *Dythemis sterilis* Hagen.

**nicevillei** Kirby (*Orthetrum*), 1894c : 112-113. LECTOTYPE ♂. Burma/nicevillei Kb. type ♂ [WFK]/Orthetrum nicevillei Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

One of Kirby's determination labels had at some time been transferred from a ♂ syntype to a ♀ which was not received at the BM(NH) until after publication of the description. This label has been replaced on its correct specimen. Currently placed as synonym of *Orthetrum glaucum* Brauer.

**nigra** Longfield (ssp. of *Trithemis donaldsoni*), 1936 : 491-493, 496, figs. 9, 10. Holotype ♂ (last 5 abdominal segments missing). W. Africa, Principe I., Ogui Pipi, 7.xii.1932, W. H. T. Tams/Trithemis donaldsoni nigra ssp. nov. Type ♂, det. Miss C. Longfield.

In the original description, only the above example was mentioned, but in a list (: 496), two ♂ are recorded. The second one (a complete example) had been labelled by Miss Longfield as type and the holotype labelled as paratype. This error has now been corrected and the second example cannot be considered even as a paratype, as it is not mentioned in the original description.

**nigricolor** Fraser (*Amphithemis*), 1922. Kimmins, 1966 : 206.

**nigrifrons** Kirby (*Orthetrum*), 1894 : 19-20. LECTOTYPE ♂. Queensland, *Turner*/Orthetrum nigrifrons Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The lectotype and paralectotype lack any determination label by Kirby. Currently placed in the genus *Crocothemis*.

**nigrilabris** Selys (*Libellula*]), 1872 : 177; (*Urothemis*), Selys, 1878 : 304-305. Holotype ♀. Menado/Lib. nigrilabris Selys, ♀ Type/Macrodiplax lycoris Selys.

This taxon was first described briefly (1872) in comparison with *Libellula lycoris* Selys, and a full description, with location of type given, in 1878. Currently placed as synonym of *Macrodiplax cora* Brauer.

**notabilis** Kirby (*Onychothemis*), 1906 : 277-278. Holotype ♂. Tonkin [Fruhstorfer]/Onychothemis notabilis Kirby, Holotype ♂, det. D. E. Kimmins, 1967.

No Kirby determination label. Currently placed as synonym of *Onychothemis tonkinensis* Martin, 1904.

**notata** Fabricius (*Libellula*), 1775 : 337. Campion, 1917 : 444.

**novaezealandiae** McLachlan (var. of *Sympetrum bipunctatum*), 1894a : 271-272. LECTOTYPE ♀. 29e[Hudson's locality number]/Paikakariki, Wellington, N.Z., *Hudson*/Sympetrum bipunctatum Br., var. novae-zealandiae McL. Type/Sympetrum bipunctatum var. novaezealandiae McL., ♀ Lectotype, D. E. Kimmins det. 1967.

The fourth syntype (from Auckland) has not been traced. The name *novaezealandiae* was originally hyphenated and has been emended in accordance with Art. 32(e)(i). Currently placed as a synonym of *Diplacodes bipunctata* (Brauer).

**obsolescens** Kirby (*Rhyothemis*), 1889 : 321. Holotype ♂. Borneo/obsolescens type [WFK].

**occidentalis** Tillyard (*Nannodythemis*), 1908a : 450-453, pl. 6, fig. 3. LECTOTYPE ♂. Bridgetown, W. A[ustralia], i.07, R. J. Tillyard/Nannodythemis occidentalis Till., ♂ TYPE. R. J. T./Nannodythemis occidentalis Tillyard, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed in the genus *Nannophya*.

**octomaculata** Fraser (*Palpopleura*), 1935. Kimmins, 1966 : 207.

**oculata** Fabricius (*Libellula*), 1775 : 421. Campion, 1917 : 444.

**osiris** Fraser (ssp. *Zygonyx iris*), 1936. Kimmins, 1966 : 208.

**othello** Tillyard (*Camacinia*), 1908 : 639-641, pl. 14, fig. 1. Holotype ♂. Cooktown, N.Q., xii.07, R. J. Tillyard/Camacinia Othello Till. ♂ TYPE, R. J. T.

**pacificus** Kirby (*Diplax*), 1884 : 355. Holotype ♂. Tongatabu, with on reverse, *Diplax pacificus* type [WFK].

Currently placed as synonym of *Diplacodes bipunctatus* (Brauer).

**pallidinervis** Kirby (*Sympetrum*), 1889 : 327, pl. 55, fig. 4. LECTOTYPE ♂. Ind[ia]/Pseudothemis pallidinervis Kb. type [WFK]/Sympetrum pallidinervis Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed as *Trithemis pallidinervis* (Kirby). Although described as a *Sympetrum*, Kirby labelled his specimens as *Pseudothemis*.

**parana** Kirby (*Misagria*), 1889 : 339, pls. 52, fig. 9 and 57, fig. 8. Holotype ♂. Para/*Misagria parana* type (WFK).

**parasticta** Pinhey (*Trithemis*), 1955 : 35-37, fig. 8. Holotype ♂. Lake Chila, Abercorn, N. R., 31.i.54, D. Vesey Fitzgerald/*Trithemis parasticta* Pinh., 1954.

**phaon** Selys (*Trithemis*), 1883 : 106-107. LECTOTYPE ♂. Yokohama, Orio/Type [McL. label]/*Trithemis phaon* Selys ♂, Japon [Selys label]/*Trithemis phaon* Selys, ♂ Lectotype, D. E. Kimmins det. 1967.

Selys gives no indication as to the collection in which the type was deposited. Ris (1911 : 589) makes no mention of the type in the Selys Collection and therefore the above specimen from the McLachlan Collection has been designated as Lectotype. Currently placed in the genus *Deielia* Kirby.

**phillipsi** Kirby (*Orthetrum*), 1896 : 522. Holotype ♂. Dobar, 2nd Feby. 95, maritime plain/Dobar, Goolis Mts, 2.ii.1895, L. L[ort-] P[hillips]/*Orthetrum Phillipsi* Kb. type [WFK].

It may be pointed out that the locality data given on the second (printed) label and in the description differs from that given on the first (mss) label. The date on the printed label has been altered to conform with the mss label. Currently placed as a synonym of *Orthetrum abbotti* (Calvert).

**prateri** Fraser (*Pseudotrama*), 1920. Kimmins, 1966 : 210.

**princeps** Kirby (*Rhyothemis*), 1894 : 16-17. LECTOTYPE ♂. Queensland, *Turner*, princeps Kb. ♂ type/*Rhyothemis princeps* Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

**pruinosa** Kirby (*Micrathyria?*), 1894b : 267-268. Holotype ♂ (abd. segments 8-10 missing). Grenada/233/*pruinosa* [WFK]/*Micrathyria* (?) *pruinosa* Kirby, ♂ Holotype, D. E. Kimmins det. 1967.

Currently placed as synonym of *Micrathyria didyma didyma* (Selys).

**pseudeudoxia** Longfield (ssp. *Atoconeura biordinata*), 1953 : 46, pl. 1, figs. 2, E, H. Holotype ♂. Uganda, Ruwenzori Range, Mubuku Valley, Bikoni Peak, 7,000 ft., 30.xii.1937, C. E. Longfield/*Atoconeura biordinata* *pseudeudoxia* Type ♂, ssp. nov. det. Miss C. Longfield.

**pseudodeflecta** Pinhey (ssp. *Hadrothemis deflecta*), 1961 : 127-128, pl. 9, fig. 2. Holotype ♂. Entebbe, Uganda, Oct. 1952, E. Pinhey/*Hadrothemis deflecta* *pseudodeflecta* Pinh. Holotype.

**puella** Kirby (*Aino*), 1890 : 113. LECTOTYPE ♂ (lacking abd. segs. 9-10). N. pygmaea/*Aino puella* Kirby, ♂ Lectotype. D. E. Kimmins det. 1967.

The only example labelled 'puella' and with type label was the female, but the ♂ syntype was discovered labelled solely 'N. pygmaea'. It agrees well with the original description and has been designated the lectotype. The locality of the syntypes was unknown. The taxon is currently placed as a synonym of *Nannothemis bella* Uhler, a South American insect.

**pusilla** Kirby (*Miathyria*), 1889 : 318, pl. 52, fig. 3. LECTOTYPE ♂. Amaz[ons]/142/*Miathyria pusilla* type [WFK]/*Miathyria pusilla* Kirby, ♂ Lectotype, det. D. E. Kimmius, 1967.

Kirby gives as localities for this species, Tapajos and Santarem; there are three paralectotypes from these localities, one of which is labelled 142 ♀. In spite of the fact that the specimen bearing Kirby's type label has only 'Amaz[ons]' as locality, I have accepted it as lectotype. This taxon is currently placed as a synonym of *Miathyria simplex* (Rambur).

**reducta** Fraser (*Uracis*), 1946. Kimmins, 1966 : 211.

**regalis** Tillyard (*Agrioptera*), 1908 : 643-645, pl. 14, fig. 3. LECTOTYPE ♂. Cooktown, N.Q., 1.08, R. J. Tillyard/*Agrioptera regalis* Till., ♂ TYPE, R.J.T./*Agrioptera regalis* Tillyard, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed as synonym of *Agrioptera longitudinalis* Selys.

**rendalli** Kirby (*Urothemis*), 1898 : 234. Holotype ♀. Fort Johnston, Nyassaland, P. *Rendall/rendalli* Kirby. paratype [Distant's writing]/*Urothemis rendalli* Kirby ♀ TYPE, D. E. Kimmins det. 1956.

As *U. rendalli* was described from one female, Distant's label 'paratype' must be an error. Currently placed as synonym of *Urothemis edwardsi* (Selys).

[*resplendens* Selys (*Rhyothemis*), 1878 : 300-301.]

The unnamed variety mentioned by Selys (: 301) is in the BM(NH). Although given a type label by McLachlan, it is not considered to be a type.

*reticulata* Kirby (*Crocothemis*), 1886 : 328, pl. 33, figs. 8, 9. Holotype ♂. Campbellpore, 21.xi.85/N.W. Ind[ia]/reticulata Kirb. type.

Currently placed as synonym of *Crocothemis servilia* (Drury).

*rezia* Kirby (*Aethriamanta*), 1889a : 298. Holotype ♂ (lacking abd. segs. 5-10). Madag[ascar]/rezia Kb. type.

*risi* Campion (*Oda*), 1915 : 489-491, fig. 40. Holotype ♂. Utakwa R., Dutch N. Guin, 2,500-3,000 ft., ii.1913, A. F. R. Wollaston/Oda nov. spec. Det. Dr. F. Ris/Oda risi Cmpn. Holotype, Determined by H. Campion.

Currently placed in the genus *Risiophlebia*.

*risi* Longfield (*Trithemis*), 1936 : 490, 491, fig. 8A. Holotype ♂. Brit. E. Africa, 31.iii.11, S. A. Neave/Trithemis distanti ♂, Dr. F. Ris det./Trithemis risi Longfield, ♂ Holotype, D. E. Kimmens det. 1967.

Longfield (: 491) states 'Lectotype ♂ and ♀ have been selected from specimens collected by Dr. Neave in British E. Africa in 1911.' As she was describing a new species, in effect she designated holotype ♂ and allotype ♀. Pinhey (1962, *Publ. fômes cult. Co. Diam. Angola* 59 : 271) quotes the Transvaal ♂ of *ambiguus* Kirby as lectotype of *risi* Longfield, but although Longfield quotes this specimen in synonymy, she designated a holotype for *risi* Longfield.

*risi* Pinhey (ssp. *Porpax asperipes*), 1958a : 115-116. Holotype ♂. Chibudzana R., Melsetter Dist., 26.ii.1948, Dept. Agric. S. Rhodesia/Porpax asperipes ssp. *risi* Pinhey, 1956, Type.

Subsequently raised to specific rank.

*risi* Tillyard (*Nannophlebia*), 1913a : 713-714, pl. 74, figs. 4, 5, 7. LECTOTYPE ♂. Bellinger R., N.S.W., 30.xi.11, R. J. Tillyard/Nannophlebia *risi* Till., ♂ TYPE, R. J. T./Nannophlebia *risi* Tillyard, ♂ Lectotype, D. E. Kimmens det. 1967.

*robertsi* Fraser (*Notiothemis*), 1944. Kimmens, 1966 : 211.

*rubra* Kirby (*Trithemis*), 1889 : 328. LECTOTYPE ♂. Australia/T. *rubra* type [WFK]/*Trithemis rubra* Kirby, ♂ Lectotype, D. E. Kimmens det. 1967.

As Australia is the first locality mentioned, and Kirby's type label was attached to the Australian specimen, this has been chosen as the Lectotype. Currently placed as a synonym of *Diplacodes haematoches* Burmeister.

*ruwenzoriensis* Fraser (*Tetrathemis*), 1941. Kimmens, 1966 : 211.

*sagitta* Ris (*Orthetrum*), 1915a : 216-217. LECTOTYPE ♂. Sierra Leone, Port Lokko, 3.v.1912, J. J. Simpson/Orthetrum nov. spec. ♂ (Type) (near *africanum*)[Ris' writing]/*Orthetrum sagitta* Ris, ♂ Lectotype, D. E. Kimmens det. 1967.

The penis of the lectotype was dissected and studied by Dr. K. Buchholz, 1963.

*schumanni* Calvert (*Micrathyria*), 1906 : 225, 227, pl. 8, figs. 39, 40, pl. 9, fig. 24. Holotype ♂. Guadaljara, Jalisco, July, Schumann/Micrathyria *schumanni* Calv., TYPE. P. P. Calvert det. 1906. B. C. A. Neur., p. 227, Orig. pl. viii, ff. 39, 40, pl. ix, fig. 24.

The ♂ right hamule has been removed and mounted in canada balsam.

*serva* Kirby (*Trithemis*), 1900 : 69-70, fig. 1. LECTOTYPE ♂ (abd. segs 7-10 missing). Free Town, Sierra Leone, 5.ix.99, E. E. Austen/On reverse, T. *serva* K[WFK].

Kirby is a little obscure in his account of the material upon which this taxon is based. He says 'Described from six specimens, two of them taken by Mr. Austen on Sept. 5 and 21 (1899).' These two specimens are in the collections; one is labelled 'Trithemis *serva* Cotype' in Kirby's writing, the other (with a red type label) has 'T. *serva* K' in Kirby's writing on underside of locality label. There is also another Sierra Leone specimen, collected by Morgan, 1835, labelled 'Trith. *serva*' by Kirby. Three other Free Town examples, collected by Austen, bear no determination labels and I consider them to be excluded from the type series by Kirby's

statement that *two* were taken by Austen. One must assume that the other three examples are missing. I have therefore chosen the specimen which originally bore the red type label as Lectotype.

**siamensis** Fraser (ssp. of *Onychothemis tonkinensis*), 1932. Kimmings, 1966 : 213.

**siemensi** Kirby (*Uracis*), 1897 : 605–606, pl. 12, fig. 2. LECTOTYPE ♂. Gurupa, Lower Amazon, 22. ii. 96, E. E. Austen/siemensi [WFK]/Uracis siemensi holotypus, präp. Dr. Buchholz/Uracis siemensi Kirby, ♂ Lectotype, D. E. Kimmings det. 1967.

The penis of the lectotype was removed and studied by Dr. H. Buchholz on one of his visits to BM(NH). The 'female from Para' referred to by Kirby is now labelled allotype and the second male (marked cotype by Kirby) has been labelled paralectotype.

**simpsoni** Ris (*Cyanothemis*), 1915 : 219–221, fig. Holotype ♂ (original designation). Yana, Sierra Leone, 1. iv. 1912, Jas. J. Simpson/Nov. gen. nov. spec.c, Det. Dr. F. Ris/Cyanothemis simpsoni Ris, ♂ Holotype, D. E. Kimmings det. 1967.

Ris (1919 : 219) refers to this Yana specimen in his description of the subjuvenile ♂ from Mongheri as 'Like first(type) specimen,' and also figures the left wings of the Yana specimen (: 220) as '(type ♂)'. I interpret this as a designation of holotype, although the word holotype is not used.

**sita** Campion (ssp. of *Indothemis limbata*), 1923 : 29–31, fig. Holotype ♂. Ceylon, Yerbury/Trincomali, 6. xii. 90/Indothemis limbata sita Campion, ♂ Holotype. Determined by H. Campion.

**smithi** Fraser (*Crocorthetrum*), 1921. Kimmings, 1966 : 213.

**smithi** Kirby (*Cannacria*), 1894b : 266–267. LECTOTYPE ♂. [St. Vincent], Grand Sable (Windward), by pools near sea, Jan. 4smithii [WFK]/Cannacria smithi Kirby, ♂ Lectotype, D. E. Kimmings det. 1967.

Currently placed as synonym of *Brachymesia furcata* Hagen.

**stigmata** Kirby (*Bradinopyga*), 1893 : 553–554, pl. 41, fig. 3. LECTOTYPE ♂. Ceylon, Trincomalee, 5. viii. 90, Yerbury/stigmaticum [WFK]/Bradinopyga stigmata Kirby, ♂ Lectotype, D. E. Kimmings det. 1967.

**stigmatizans** Fabricius (*Libellula*), 1775 : 421. Campion, 1917 : 443.

**strachani** Kirby (*Apeleutherus*), 1900 : 74–75, pl. 2, figs. 4, 4a. LECTOTYPE ♂. Lagos, Dr. H. Strachan/Apeleutherus strachani ♂/App. figd [last two labels in Kirby's writing].

Of the long series recorded by Kirby, only the lectotype ♂ and allotype ♀ bear Kirby's determination labels. I have been unable to trace the ♂ from Free Town, 24. viii, listed by Kirby. This taxon is currently placed as *Bradinopyga strachani* (Kirby).

**subpruinosum** Kirby (*Sympetrum*), 1886 : 326, pl. 33, fig. 7. LECTOTYPE ♀. N.W. Ind[ia] [WFK]/subpruinosum Kirb. type [WFK]/Sympetrum subpruinosum Kirby, ♀ Lectotype, D. E. Kimmings det. 1967.

Currently placed as synonym of *Sympetrum commixtum* Selys.

**sylvia** Kirby (*Nannothemis*), 1889 : 343–344. Holotype ♀. Beara/N. sylvia type [WFK]. Currently placed in the genus *Oligoclada*.

**terminalis** Kirby (*Lathrecista*), 1889 : 336. LECTOTYPE ♂. W. Borneo/Lathrecista terminalis ♂ type [WFK]/Lathrecista terminalis Kirby, ♂ Lectotype, D. E. Kimmings det. 1967.

Currently placed as a synonym of *Lathrecista asiatica* (Fabr.)

**thais** Kirby (*Perithemis*), 1889 : 324–325. LECTOTYPE ♂. Para/330/thais Kb. type [WFK]/Perithemis thais Kirby, ♂ Lectotype, D. E. Kimmings det. 1967.

The female, without locality, referred to by Kirby, has not been traced.

**thomasi** Longfield (*Urothemis*), 1932 : 34–35. Holotype ♂. S. Arabia, Qara Mts., Ain al Rizab, 250 ft., 31.x. 1930, Bertram Thomas/Urothemis thomasi Longfield, ♂ Holotype. Miss Longfield's determination label is missing, and a new one has been provided.

*tibialis* Kirby (*Micrathyria*), 1897 : 610, pl. 13, figs. 5-6. LECTOTYPE ♂. Santarem/tibialis [WFK]/Micrathyria tibialis Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

*tillyardi* Fraser (*Palaeothemis*), 1923. Kimmins, 1966 : 216.

*torrida* Kirby (*Pseudomacromia*), 1889 : 340-341, pl. 52, fig. 7. LECTOTYPE ♂. Sierra Leone/Pseudomacromia torrida type [WFK]/Pseudomacromia torrida Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The allotype ♀ (the only one in Kirby's series) is from Sierra Leone and is very teneral, the head now missing. The remaining four syntypes (all males) from Abyssinia, West Africa, Natal and Tenerife, have been traced and are now labelled as paralectotypes. Kirby's statement (: 341) 'Notwithstanding these differences, I am not at present inclined to treat any of these specimens (all of which are males, the only female being described above) as specifically distinct' is considered as definite inclusion of these specimens in the type-series.

*torrida* Kirby (*Tyriobapta*), 1889 : 338-339, pl. 54, figs. 5-6. LECTOTYPE ♂. W. Borneo/Tyriobapta torrida type [WFK]/Tyriobapta torrida Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

*trameiformis* Kirby (*Antidythemis*), 1889 : 315, pl. 51, fig. 4. LECTOTYPE ♂. Para/Carolina Lin. Cab./Antidythemis trameiformis ♂ type [WFK]/Antidythemis trameiformis Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The allotype ♀ bears a label Dythemis? trameiformis Selys, n. sp. ♀, Amazone?

*translucida* Kirby (*Tramea*), 1889 : 315. Holotype ♀. N. India/translucida Kb. type [WFK].

This taxon is currently placed as a synonym of *Trapezostigma limbata* (Desj.).

*triangularis* Kirby (*Rhyothemis*), 1889 : 319. LECTOTYPE ♂. Sar[awak] 78/Wallace/triangularis type [WFK]/Rhyothemis triangularis Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The example in the BM Type collection, although bearing a type-label, proved to be an imposter, bearing a label Sandakan, 29.iii.1893 (four years after publication of the description). The specimen selected above as type was found in the general collection. It is presumed that the false type was transferred to the type collection for evacuation in the summer of 1940 and has remained undetected until the preparation of this type list.

*tricolor* Kirby (*Orthetrum*), 1893 : 555-556. Holotype ♂. Kandy, 30.vi.92/Ceylon, Yerbury/Orthetrum tricolor [WFK].

*trifidum* Kirby (*Acisoma?*), 1889 : 341. Holotype ♂ (lacking head and right hind wing). Congo/Acisoma ascalaphoides? [in pencil, writing unknown]/Acisoma trifida, type [WFK].

The spelling of the specific name *trifida* has been corrected to *trifidum*.

*tristrigata* Kirby (*Tetrathemis*), 1889 : 343. Holotype ♀. Gil./Gilolo/T. tristrigata type [WFK].

Currently placed as a synonym of *Tetrathemis irregularis leptoptera* Selys.

*turneri* Kirby (*Rhyothemis*), 1894 : 17. LECTOTYPE ♂. Queensland, Turner/Turneri Kb. ♂ [WFK]/Rhyothemis turneri Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed as synonym of *Rhyothemis resplendens* Selys.

*tyleri* Kirby (*Trithemis*), 1899 : 364, pl. 15, fig. 1. LECTOTYPE ♂. La Chorrera, Panama/T. Tyleri, Named at sight by W. F. K./Trithemis tyleri Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

*uniformis* Kirby (*Belonia*), 1889 : 333-334. Holotype ♀. Mex[ico]/uniformis, type [WFK].

Currently placed as a synonym of *Libellula croceipennis* Selys.

*variegatum* Kirby (*Acisoma*), 1898 : 239-240. LECTOTYPE ♂. Fort Johnston, Nyassaland, P. Rendall/variegatum Kirby paratype [Distant's writing]/Acisoma variegatum Kirby, ♂ Lectotype, D. E. Kimmins det. 1961.

Currently placed as a synonym of *Acisoma ascalaphoides* Rambur.

**venusta** Kirby (*Micrathyria*), 1897 : 612–613, pl. 13, fig. 1. Holotype ♂. Macapá, 25.ii.96/ Macapa, Lower Amazon, 25.ii.96/venusta [WFK].

This taxon is currently placed in the genus *Erythrodiplax*.

**vibrans** Fabricius (*Libellula*), 1793 : 380. Campion, 1917 : 449–450.

**vittata** Kirby (*Urothemis*), 1893 : 552, pl. 42, fig. 2. LECTOTYPE ♀. Trincomali, 10.ix.91/ Ceylon, Yerbury/vittata type [WFK]/Urothemis vittata Kirby, ♀ Lectotype, D. E. Kimmins det. 1967.

**vittatus** Kirby (*Hydrobasileus*), 1889 : 314, pl. 51, fig. 10. Holotype ♂. Men[ado]/Wallace/ Tramea 4 vittata type [WFK]/Hydrobasileus vittatus Kirby ♂, det. D. E. Kimmins, 1967.

The name *Tramea quadrivittata* Hag. MS is quoted by Kirby in synonymy of *Hydrobasileus vittatus* Kirby.

**vivax** Calvert (*Brechmorhoga*), 1906 : 279, 280, pl. 8, fig. 46. Holotype ♂. Zapote, Guatemala, Champion/Brechmorhoga vivax Calvert, TYPE. P. P. Calvert det. 1906. B. C. A. Neur. p. 280. Original of Pl. viii, f. 46.

**wilsoni** Pinhey (*Brachythemis*), 1952 : 16, fig. 5A. Holotype ♂. Xambio, S. Sudan, xii. 1950, C. E. Wilson/Brachythemis ?sp. nov. E. Pinhey det. 1951/Brachythemis wilsoni Pinh. ♂.

**woodfordi** Kirby (*Nesocria*), 1889 : 335. Holotype ♂. [Solomon Islands], Alu/Nesocria woodfordi type [WFK].

Currently placed in the genus *Protorthemis*.

**yerburyi** Kirby (*Tetrathemis*), 1893 : 556–557, pl. 41, fig. 4. LECTOTYPE ♂. Kandy, 30.vi.92. B. in coitu A/Ceylon, Yerbury/yerburii type [WFK]/Tetrathemis yerburyi Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

The specific name, spelt *yerburii* by Kirby, has been emended to *yerburyi*.

#### Family CORDULIIDAE

**aculeata** Fraser (*Macromia*), 1927. Kimmins, 1966 : 176.

**aeneothorax** Nunney (*Ceratogomphus*?), 1895 : 349–351, figs. A, B. Holotype ♂ (one sup. app. and inf. app. glued to card). Ceratogomphus aeneothorax Nunney mss, on reverse 'Sierra Leone' and TYPE.

I do not recognise the writing (in red ink) of the locality 'Sierra Leone'. Currently placed in the genus *Macromia*.

**annaimallaiensis** Fraser (*Macromia*), 1931. Kimmins, 1966 : 178.

**atrifrons** McLachlan (*Syncordulia*), 1883 : xc–xci. Holotype ♀. Queensland/Type [McL. label]/Syncordulia atrifrons McL.

Currently placed in the genus *Micromidia*.

**atuberculata** Fraser (*Macromia*), 1922. Kimmins, 1966 : 180.

**aurolineata** Tillyard (ssp. of *Metathemis guttata*), 1913 : 575. LECTOTYPE ♂. Dorrigo, N.S.W., R. J. Tillyard, 4.xii.1911/Metathemis guttata aurolineata Tillyard, TYPE ♂, R.J.T./ Metathemis guttata aurolineata Till., ♂ Lectotype, D. E. Kimmins det. 1968.

Currently placed as *Eusynthemis guttata aurolineata* (Tillyard).

**bellicosa** Fraser (*Macromia*), 1924. Kimmins, 1966 : 181.

**berthoudi** Tillyard (*Hesperocordulia*), 1911 : 376–378, pl. 10, figs. 1, 3, 9. LECTOTYPE ♂. Waroona, W. A[Australia], G. F. Berthoud, 27.xi.1909/Hesperocordulia Berthoudi [sic] Till., ♂ TYPE, R.J.T./Hesperocordulia berthoudi Till., ♂ Lectotype, D. E. Kimmins det. 1968.

**binocellata** Fraser (*Macromia*), 1924. Kimmins, 1966 : 183.

**bispina** Fraser (*Macromia*), 1954. Kimmins, 1966 : 183.

**braueri** Selys (*Epitheca*), 1871 : 284–285. Holotype ♂. N[ew] Zeal[and]/24/Cordulia Braueri de Selys/Type [McL. label]/Epitheca braueri Selys, ♂ Holotype, D. E. Kimmins det. 1967.

Placed by Fraser, 1939, in his genus *Antipodochlora*.

***burliyarensis*** Fraser (ssp. of *Idionyx corona*), 1922. Kimmins, 1966 : 184.

***canis*** McLachlan (*Tetragoneuria*), 1886 : 104-105. Holotype ♂. [Western North America] Washington Territory [K. H. Morrison]/Type [McL. label]/*Tetragoneuria canis* McL.

***circularis*** Tillyard (*Pseudocordulia*), 1908 : 743, pl. 22, fig. 1. Holotype ♂. Kuranda, N.Q., xii.07, F. P. Dodd/*Pseudocordulia circularis* Till., ♂ TYPE, R.J.T.

***clavicularis*** Tillyard (*Synthemis*), 1908b : 749-750, pl. 22, fig. 5. Holotype ♂. Kuranda, N. Q., i.08, E. Allen/*Synthemis clavicularis* Till., ♂ TYPE, R.J.T.

***contumax*** Selys (*Phyllomacromia*), 1879 : 103-104. Holotype ♂ (right fore wing, both hind wings somewhat damaged). West Africa, Akele/Type [McL. label]/*Phyllomacromia contumax*, Selys [McL. hand].

Currently placed in the genus *Macromia*.

***corona*** Fraser (*Idionyx*), 1921. Kimmins, 1966 : 187.

***corycia*** Laidlaw (*Macromia*), 1922 : 220, 225, fig. 5. Holotype ♂. Sarawak, Ulu Baram 3.xi.1920, J. C. Moulton/*Macromia corycia* sp. n. ♂ Type, det. F. F. Laidlaw. The original paper label, in Laidlaw's handwriting, gives the date wrongly as 3.xi.30.

***costalis*** Selys (*Cordulia*), 1871 : 273. Holotype ♀. Georgia/*Cordulia costalis* de Selys/C. *costalis* De Selys ♀.

Currently placed as a synonym of *Tetragoneuria cynosura* (Say).

***cupricincta*** Fraser (*Macromia*), 1924. Kimmins, 1966 : 187.

***cupricolor*** Fraser (*Hemicordulia*), 1927. Kimmins, 1966 : 187.

***cyanitincta*** Tillyard (*Synthemis*), 1907 : 724-726, pl. 35, figs. 3-4, pl. 36, fig. 1. LECTOTYPE ♂. Margaret R., W. A., i.07, R. J. Tillyard/*Synthemis cyanitincta* Till., ♂ TYPE, R.J.T./*Synthemis cyanitincta* Tillyard, ♂ Lectotype, D. E. Kimmins det. 1967.

***cydippe*** Laidlaw (*Macromia*), 1922 : 220-222, 223, figs. 2, 3. Holotype ♂. Sarawak, Lio Matu, 3.x.1914, J. C. Moulton/*Macromia cydippe* Laidlaw, ♂ Type.

***cyrene*** Lieftinck (*Synthemis*), 1953a : 78-81, figs. 5-9. Holotype ♂. N. E. New Guinea, Saiko, 5,500-6,000 ft., Babu River (Upper Waria River), ix-x.1936/F. Shaw-Mayer/*Synthemis cyrene* sp. n. ♂.

***divergens*** Tillyard (*Cordulephya*), 1917 : 467-469, pl. 23, figs. 9-10, text-fig. 6. LECTOTYPE ♂. Hornsby, N.S.W., 8.v.16, R. J. Tillyard/*Cordulephya divergens* Till., ♂ TYPE, R.J.T./*Cordulephya divergens* Tillyard, ♂ Lectotype, D. E. Kimmins det. 1967.

***donaldi*** Fraser (*Indomacromia*), 1924. Kimmins, 1966 : 189.

***elliptica*** Tillyard (*Pseudocordulia*), 1913b : 229-230, pl. 15, figs. 1-2. LECTOTYPE ♂. Kuranda, N. Q[ueensland], F. P. Dodd, 3.i.1913/*Pseudocordulia elliptica* Tillyd., ♂ TYPE, R.J.T./*Pseudocordulia elliptica* Till., ♂ Lectotype, D. E. Kimmins det. 1968.

***ellisoni*** Fraser (*Macromia*), 1924. Kimmins, 1966 : 190.

***elongata*** Campion (*Metaphya*), 1921 : 64-66, pl. 9, fig. 17. Holotype ♀. Loc. Baie Ngo, no. 204, 10.ii.14. Coll. P. D. Montague, New Caledonia Exped./New Caledonia, P. D. Montague/*Metaphya elongata* Campion, Holotype, Determined by H. Campion.

***euterpe*** Laidlaw (*Macromia*), 1915 : 26-29, figs. 1-2. LECTOTYPE ♂. Kina Balu, British North Borneo, J. C. Moulton/M. euterpe Type ♂, 12.ix.13, 7 [Laidlaw's writing]/*Macromia euterpe* Laidlaw, ♂ Lectotype, D. E. Kimmins det. 1967.

The example chosen as Lectotype has for many years been labelled 'Type H.T.', but was not so designated in print by Laidlaw.

***evelynae*** Lieftinck (*Synthemis*), 1953a : 81-84, figs. 10-11. Holotype ♂ (abd. segs. 6-10 and anal appendages wanting). Papua, Mafulu, 4,000 ft., xii.1933, L. E. Cheesman/*Synthemis evelynae* sp. n. ♂.

**fallax** McLachlan (*Gomphomacromia*), 1881 : 141-142. LECTOTYPE ♂. Intaj, Ecuador/ Gomphomacromia fallax McL./Type [McL. label]/Gomphomacromia fallax McL., ♂ Lectotype, D. E. Kimmins det. 1967.

**fenella** Campion (*Synthesisis*), 1921 : 61-62, pl. 9, fig. 16. text-fig. 11. Holotype ♂. Loc. Mt. Mou, No. 725, Date 20.iii.14. Coll. P. D. Montague, New Caledonia Exped./Synthemis fenella Campion, Holotype. Determined by H. Campion.

**fidelis** McLachlan (*Hemicordulia*), 1886 : 104. Holotype ♂. [Loyalty Isls.] Uvea/Type [McL. label]/Hemicordulia fidelis McLach.

**flavicauda** McLachlan (*Nesocordulia*), 1882 : clxx-clxxii. Holotype ♂. Madagascar/ Nesocordulia flavicauda McL./Type [McL. label].

**flavicincta** Kirby (*Phyllomacromia*), 1898 : 241-242. LECTOTYPE ♂. Rustenberg, W. L. D[istant]/flavicincta (type) Kirby [Distant's writing]/Macromia picta Selys H. C[ampion]/ Phyllomacromia flavicincta Kirby, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed in the genus *Macromia*, where it is a junior homonym of *M. flavicincta* Selys and a synonym of *Macromia picta* (Selys).

**flavicincta** Selys (*Macromia*), 1874 : 25-27. LECTOTYPE ♂. North Ind[ia]/Macr. flavicincta de Selys/Macromia flavicincta Selys, ♂ Lectotype, D. E. Kimmins det. 1967.

The male chosen as Lectotype has for many years been labelled Holotype, but it was not so indicated in print by Selys. The original description gives 'Nord du Bengale' as locality, but it is only the ♀ which is so labelled.

**flavocolorata** Fraser (*Macromia*), 1922. Kimmins, 1966 : 192.

**flavovittata** Fraser (*Macromia*), 1935. Kimmins, 1966 : 192.

**flexicauda** Campion (*Synthemis*), 1921 : 57-61, pl. 8, fig. 14, pl. 9, fig. 15, text-fig. 10. Holotype ♂. Loc. Mt. Nekando, Date, 24.v.14, Coll. P. D. Montague, New Caledonia Exped./ New Caledonia, P. D. Montague/Synthemis flexicauda Campion ♂. Holotype. Determined by H. Campion.

**fulva** Laidlaw (*Macromidia*), 1915 : 29-30, fig. 3. Holotype ♂. Borneo, J. C. Moulton/ Macromidia fulva, ♂ Laidlaw, TYPE. Kina Balu, Borneo, 11.ix.1913, J. C. Moulton.

**fulvia** Fraser (ssp. of *Idionyx corona*), 1924. Kimmins, 1966 : 193.

**galeata** Fraser (*Idionyx*), 1924. Kimmins, 1966 : 193.

**genialis** Laidlaw (*Macromidia*), 1923 : 232. Holotype ♂. Malay Peninsula, Pahang, Gunong Tahan, 10.xii.1921/Macromidia genialis ♂ Type [Laidlaw's writing].

**gomphomacromioides** Tillyard (*Synthemiopsis*), 1917 : 464-467, pl. 23, figs. 7-8, text-figs 4-5. LECTOTYPE ♂. Cradle Mt., Tas., R. J. Tillyard, 18.i.17/Synthemiopsis gomphomacromioides Till., ♂ TYPE, R.J.T./Synthemiopsis gomphomacromioides Tillyard, ♂ Lectotype, D. E. Kimmins det. 1967.

**gracillima** Fraser (*Hemicordulia*), 1944. Kimmins, 1966 : 194.

**halei** Fraser (*Macromia*), 1928. Kimmins, 1966 : 194.

**ida** Fraser (*Macromia*), 1924. Kimmins, 1966 : 196.

**imbricata** Fraser (*Idionyx*), 1926. Kimmins, 1966 : 196.

**indica** Fraser (*Macromia*), 1924. Kimmins, 1966 : 197.

**insignis** Kirby (*Pseudogomphus*), 1889a : 299. Holotype ♂. Cameroons/Pseudogomphus insignis [WFK].

Currently placed as a synonym of *Macromia sophia* Selys. The tenth abdominal segment and anal appendages are detached.

**insularis** Kimmins (*Guadalca*), 1957a : 318-319, figs. 3-4. LECTOTYPE ♂. Solomon Is., Guadalcanal, Tapenanje, 10-23.xii.1953, J. D. Bradley/Guadalca insularis Kim., ♂ Type, D. E. Kimmins det. 1955/Guadalca insularis Kimmins, ♂ Lectotype, D. E. Kimmins det. 1967.

*intricata* Fraser (*Idionyx*), 1926. Kimmins, 1966 : 198.

*irata* Fraser (*Macromia*), 1924. Kimmins, 1966 : 198.

*junior* Pinhey (ssp. of *Macromia kimminsi*), 1961 : 116, pl. 8, figs. 10, 15, 16. Holotype ♂. *van Someren*, Broderick Falls, Scarp, Kenya, v. 51/Macromia kimminsi junior Pinh. HOLOTYPE.

*kimminsi* Fraser (*Macromia*), 1954. Kimmins, 1966 : 199.

*kimminsi* Lief tinck (*Synthemis*), 1953a : 75-78, figs. 1-4. Holotype ♂. N.E. New Guinea, Saiko, 5,500-6,000 ft., Babu River (Upper Waria River), 24.x.1936/F. Shaw Mayer/Synthemis kimminsi sp. n.

*laidlawi* Fraser (*Idionyx*), 1936. Kimmins, 1966 : 200.

In my paper (1966), the reference to this species was omitted. It should be 1936a : 701.

*leachi* Selys (*Synthemis*), 1871a : 561. Holotype ♂. N[ew] Holland/Cord. Leachii ♂ Selys/ Synth. Leachii de Selys.

The left hind wing is missing and the other wings are somewhat battered. The specific name has been emended to 'leachi'.

*leoni* Fraser (*Phyllo macromia*), 1928. Kimmins, 1966 : 200.

*lieftincki* Fraser (*Macromia*), 1954. Kimmins, 1966 : 201.

*magnifica* Selys (*Macromia*), 1874 : 22-24. LECTOTYPE ♀. N. California, *Walsingham*/ Macromia magnifica ♀ [Selys' writing]/Macromia magnifica Selys, ♀ Lectotype, D. E. Kimmins det. 1967.

The ♂ syntype of this species has not been traced in the McLachlan collection. The ♀ was found (without any type label) and has been designated Lectotype. Selys gives no indication that he retained the ♂, and Martin (1906 : 67) writes 'Types ♂ et ♀ coll. MacLachlan'.

*malabarensis* Fraser (*Epophthalmia*), 1935. Kimmins, 1966 : 203.

*malayana* Laidlaw (ssp. of *Macromia moorei*), 1928 : 133-134. Holotype ♂. Pahang, L. Tamang, 13.vi.1923, F. N. Chasen/Macromia moorei malayana n. subsp. [Laidlaw's writing]/Macromia moorei malayana ♂ Holotype, Laidlaw [DEK].

Currently placed as synonym of *Macromia moorei fumata* Kruger.

*marginata* Selys (*Somatochla?*), 1883 : 109-110. Holotype ♂ (head lacking). Japan/Type [McL. label]/Somatochla? marginata Selys, ♂, Japon [Selys' writing].

Currently placed in the genus *Epitheca*.

[*martini* Tillyard (*Synthemis*), 1907 : 726-728, pls. 35, figs. 1-2 and 36, fig. 2.]

There are no examples of this species in BM(NH) collection. The types may perhaps still be in Canberra.

*mascarenica* Fraser (*Nesocordulia*), 1948. Kimmins, 1966 : 203.

*melanosoma* Tillyard (ssp. of *Metathemis guttata*), 1913b : 231-233. LECTOTYPE ♂. Tambourine, Q[ueensland], R. J. Tillyard, 24.xii.1912/Metathemis guttata melanosoma Tillyd., ♂ TYPE, R.J.T./Metathemis guttata melanosoma Till., ♂ Lectotype, D. E. Kimmins det. 1968.

Currently placed as *Eusynthemis guttata melanosoma* (Tillyard).

*metallica* Tillyard (*Lathrocordulia*), 1911 : 379-380, pl. 10, figs. 2, 4 and 10. LECTOTYPE ♂. Waroona, W. A[ustralia], G. F. Berthoud, 3.xii.1910/Lathrocordulia metallica Till., ♂ TYPE, R.J.T./Lathrocordulia metallica Till., ♂ Lectotype, D. E. Kimmins det. 1968.

The lectotype lacks the apex of the left superior anal appendage.

*micans* Laidlaw (*Metaphya*), 1912 : 2-3, pl. 1. Holotype ♂. Sarawak, 1910/Metaphya micans Type ♂ [Laidlaw's writing].

The allotype ♀ was described later (*Proc. zool. Soc. Lond.* 1913 : 65-67).

*minima* Fraser (*Idionyx*), 1931. Kimmins, 1966 : 204.

**montaguei** Campion (*Synthemis*), 1921 : 55-57, pl. 8, fig. 13, text-fig. 9. Holotype ♂. Loc. Alt Mou, Date, 10.iii.14 (No. 488), Coll. P. D. Montague, New Caledonia Exped./New Caledonia, *P. D. Montague/Synthemis montaguei* Campion, ♂, Holotype. Determined by H. Campion.

**montana** Tillyard (*Cordulephya*), 1911a : 392-397, pls. 11-12. Holotype ♂. [Medlow], Blue Mts., N.S.W., 19.i.10, *R. J. Tillyard/Cordulephya montana* Till., ♂ TYPE, R.J.T.

Holotype ♂ specified by Tillyard (1911 : 397, line 14, 'type-male'). The locality 'Medlow' is given in the text in several places but not on the locality label.

**moorei** Selys (*Macromia*), 1874 : 28. Holotype ♂. Himalaya/*Macromia moorei* Selys ♂, n. sp.

**mystica** Tillyard (*Austrophya*), 1908b : 739-740, pl. 31, fig. 1. Holotype ♀. Kuranda, N. Q., i.08, *F. P. Dodd/Austrophya mystica* Till., TYPE ♀, R.J.T.

**nadganiensis** Fraser (*Idionyx*), 1924. Kimmins, 1966 : 205.

**nasalis** Selys (*Epitheca*), 1874 : 21. Holotype ♀. North America/*Epith. nasalis* de Selys mss., var. *d'albicincta* B.? [Selys' writing].

This example has at some time lost its locality label and a new one has been provided. Currently placed in the genus *Somatochloa*.

**nigra** Tillyard (*Synthemis*), 1906 : 489-491. LECTOTYPE ♂ (lacking most of left hind wing). Kuranda, N. Q., i.05, *R. J. Tillyard/Synthemis nigra* Till., ♂ TYPE, R.J.T./*Synthemis nigra* Tillyard, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed in the genus *Eusynthemis*.

**nilgiriensis** Fraser (ssp. of *Idionyx corona*), 1922. Kimmins, 1966 : 206.

**nilgiriensis** Fraser (*Phyllomacromia*), 1918. Kimmins, 1966 : 207.

**occidentalis** Tillyard (ssp. of *Synthemis macrostigma*), 1910 : 355. LECTOTYPE ♂. Bridgetown, W. A., i.07, *R. J. Tillyard/Synthemis macrostigma* Selys, subsp. *occidentalis* Till., ♂ TYPE, R.J.T./*Synthemis macrostigma* *occidentalis* Till., ♂ Lectotype, D. E. Kimmins det. 1967.

**olivei** Tillyard (*Synthemis*), 1908b : 747-749, pl. 22, fig. 4. LECTOTYPE ♂. Cooktown, N. Q., i.08, *R. J. Tillyard/Synthemis olivei* Till., ♂ TYPE, R.J.T./*Synthemis olivei* Tillyard, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed in the genus *Choristhemis*.

**orientalis** Tillyard (ssp. of *Synthemis macrostigma*), 1910 : 355. LECTOTYPE ♂. Blue Mts., N.S.W., ii.05, *R. J. Tillyard/Synthemis macrostigma* Selys, subsp. *orientalis* Till., ♂ TYPE/*Synthemis macrostigma* *orientalis* Till., ♂ Lectotype, D. E. Kimmins det. 1967.

**ornata** Fraser (*Idionyx*), 1921. Kimmins, 1966 : 208.

**pacifica** Fraser (*Hemicordulia*), 1925. Kimmins, 1966 : 208.

**pallida** Fraser (*Macromia*), 1924. Kimmins, 1966 : 208.

**periyashola** Fraser (*Idionyx*), 1939. Kimmins, 1966 : 209.

**piscator** Barnard (*Presba*), 1934 : 168, figs. 1f-h, 2. LECTOTYPE ♂. Groot Drakenstein, Cape Province, xii.1932, *A. C. Harrison/Presba piscator* Barnard ♂ TYPE [DEK]/*Presba piscator* Barnard, ♂ Lectotype, D. E. Kimmins det. 1967.

**pseudafricana** Pinhey (*Macromia*), 1961 : 109, pl. 8, fig. 5. Holotype ♂. Aswe R., Karimoja Suk, Uganda, iv.1952/*Macromia africana* Selys, E. Pinhey det. 1952/*Macromia africana* Selys, F. C. Fraser det. 1953/*Macromia pseudafricana* Pinh. HOLOTYPE.

Pinhey states that Fraser's determination was made 'with reservation'.

**pygmaea** Selys (*Cordulephya*), 1871 : 316. Holotype ♂. Melbourne, *Edwards/122/Cordulephya pygmaea* Selys ♂/Type [McL. label].

*refracta* Tillyard (*Austrocordulia*), 1908b : 744-745, pl. 22, fig. 2. Holotype ♂. Cooktown, N. Q., i.08, R. J. Tillyard/Austrocordulia refracta Till., ♂ TYPE, R.J.T.

*regina* Selys (*Synthemis*), 1874 : 31-33. LECTOTYPE ♂. N[ew] S[outh] W[ales]/Synth. regina de Selys/Synthemis regina Selys, ♂ Lectotype, D. E. Kimmins det. 1967.

Selys gives as locality 'Queensland', but the BM(NH) specimen, which he lists first, is labelled New South Wales, the MacLachlan examples being from Queensland. Currently placed in the genus *Eusynthemis*.

*rhinoceroides* Fraser (*Idionyx*), 1934. Kimmins, 1966 : 211.

*rutherfordi* Selys (*Neophya*), 1881 : xvii-xviii, 1 fig. Holotype ♂. Old Calabar, R[utherford]/Type[McL. label]/Neophya Rutherfordi Selys.

*saffronata* Fraser (*Idionyx*), 1924. Kimmins, 1966 : 212.

*selysi* Fraser (*Idionyx*), 1926 : 201-202, pls. 9, fig. 6 and 10, fig. 6. LECTOTYPE ♂. I. selysi ♂. Maymyo, Upper Burma, 15.vi.24. Col. F. Wall coll. [F.C.F.]/Idionyx selysi Fraser. ♂ Lectotype, D. E. Kimmins det. 1967.

Through an unfortunate oversight, this species was omitted from my 1966 paper. The above example has been chosen as Lectotype, in preference to the example in the Selys collection, which Fraser appears not to have seen.

*selysi* Kirby (*Macromia*), 1900 : 77-78. Holotype ♂. Sierra Leone, Free Town, 16.ix.99, E. E. Austen/M. Selysi type [WFK].

*shanensis* Fraser (*Macromidia*), 1927. Kimmins, 1966 : 213.

*smithi* White (*Cordulia*), 1845, pl. 6, fig. 2; Selys, 1871 : 261. Holotype ♀. New Zealand/Cordulia Smithii White, Zool. Ereb. & Terror, t., f... [A. White's writing].

The first reference to this species is the plate reference given above. The first description is that of Selys, 1871. Currently placed in the genus *Procordulia*.

*sophia* Selys (*Macromia*), 1871a : 550-551. Holotype ♂. Cape Coast Castle [Guinea]/124/Type [McL. label]/Macromia sophia ♂ Selys [Selys' writing].

*spiniger* Tillyard (*Synthemis*), 1913 : 572-574, pl. 62, figs. 15-16. Holotype ♂. Waroona, W. A[ustralia], G. F. Berthoud, 27.i.1912/Synthemis spinifer [sic] Tillyard, TYPE ♂, R.J.T./Synthemis spiniger Till., ♂ Holotype, D. E. Kimmins det. 1968.

The specific name was published as 'spiniger' and used consistently five times in the original publication.

*stevensi* Fraser (*Idionyx*), 1924. Kimmins, 1966 : 214.

*subjuncta* Tillyard (ssp. of *Metathemis brevistyla*), 1913 : 574, pl. 62, fig. 1b. LECTOTYPE ♂. Dorrigo, N.S.W., R. J. Tillyard, 6.xii.1911/Metathemis brevistyla subjuncta Tillyard, TYPE ♂, R.J.T./Metathemis brevistyla subjuncta Till., ♂ Lectotype, D. E. Kimmins det. 1968.

Currently placed as *Eusynthemis brevistyla subjuncta* (Tillyard).

*superba* Tillyard (*Hemicordulia*), 1911 : 368-370, pl. 10, figs. 5-8. LECTOTYPE ♂. Pallal, N.S.W., R. J. Tillyard, 13.xii.1910/Hemicordulia superba Till., ♂ TYPE, R.J.T./Hemicordulia superba Till., ♂ Lectotype, D. E. Kimmins det. 1968.

*sylvatica* Fraser (*Macromia*), 1954. Kimmins, 1966 : 215.

*tasmanica* Tillyard (*Synthemis*), 1910 : 344-347, pls. 4, fig. 2 and 7, figs. 2, 20. LECTOTYPE ♂. St. Patrick's R., Tas., 7.i.09, R. J. Tillyard/Synthemis tasmanica Till., ♂ TYPE, R.J.T./Synthemis tasmanica Till., ♂ Lectotype, D. E. Kimmins det. 1967.

*thalia* Lieftinck (*Macromia*), 1929 : 103-104, fig. 29. Holotype ♂. Khasia Hills/Macromia thalia nov. nom., ♂ Holotype, vid. Lieftinck, '28 [Lieftinck's writing]./Macromia thalia Lieftinck, ♂[DEK].

This specimen was originally determined as *Macromia ?fraenata* Laidlaw, by Laidlaw.

**thetis** Ris (**Macromia**), 1921 : 379–381, figs. 65–66. LECTOTYPE ♂. Chirinda For., Gazal[and], 3,600 ft., 9.x.1905, G. A. K. Marshall/Macromia spec. a, Det. Dr. F. Ris, Phylomacromia aequatorialis Martin?/Macromia thetis Ris ♂, det. Miss C. Longfield, 1934./ Macromia thetis Ris, ♂ Lectotype, D. E. Kimmins det. 1968.

With this type and the allotype ♀ is a mss. note by Miss Longfield. 'These are believed to be the types of *Macromia thetis* Ris, described 1921, in Ann. S. African Mus. Found with all labels as at present, except type labels and determination labels of Miss C. Longfield'.

The female in the South African Museum was excluded from the type series by Ris' reference (p. 381) to the 'typical pair in the British Museum'.

**tillyardi** Martin (**Macromia**), 1906 : 72. Holotype ♀. Kuranda, 1.05/Macromia tillyardi Martin, ♀ TYPE, R.J.T.

Although Tillyard (1906 : 491) records the capture of three females, only one, 'the type-specimen' was sent to Martin and is therefore automatically the holotype.

**travencorensis** Fraser (**Idionyx**), 1931. Kimmins, 1966 : 216.

**trituberculata** Fraser (**Macromia**), 1921. Kimmins, 1966 : 216.

**unguiculata** Fraser (**Idionyx**), 1926. Kimmins, 1966 : 217.

**venator** Barnard (**Presba**), 1933 : 167, figs. 1a–e. LECTOTYPE ♂. French Hoek, C[ape] P[rovince], with on reverse, K. H. Barnard, xii.1932/Presba venator Barnard, ♂ TYPE [DEK]/ Presba venator Barnard, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed as a synonym of *Syncordulia gracilis* (Burm.).

**virgula** Selys (**Synthemis**), 1874 : 33–34. LECTOTYPE ♂. S. Austral[ia], Bakewell/Synth. virgula de Selys/Synthemis virgula Selys, ♂ Lectotype, D. E. Kimmins det. 1967.

Currently placed in the genus *Eusynthemis*.

**viridescens** Tillyard (**Macromia**), 1911 : 380–381, pl. 10, fig. 11. Holotype ♂. Cape York, N. Q[ueensland], H. Elgner, 22.xi.1909/Macromia viridescens Till., ♀ TYPE, R.J.T./'This is said to be the ♀ of M. terpsichore Foerster. Tillyd., Proc. Linn. Soc. N.S.W., Vol. xxxvii, 1912, p. 584' [F. C. Fraser's writing].

Currently placed as a synonym of *Macromia terpsichore* Foerster.

**whitei** Selys (**Macromia**), 1871a : 555. LECTOTYPE ♂. N. India/Macr. Whitei ♂ De Selys [Selys' writing]/Macromia whitei Selys, ♂ Lectotype, D. E. Kimmins det. 1967.

The BM(NH) collection contains 1 ♂, 1 ♀ of this species, labelled by Selys in writing very similar to that on the label of *Synthemis leachi*, described in the same publication. Selys quotes an unspecified number of examples in 'Coll. Selys et Brit. Mus.' Our examples are labelled N. India, which would certainly include part of Bengal. The species is almost certainly named after Dr. Adam White, a previous Keeper of the Zoological Department of the British Museum and one assumes therefore that our examples would be the types. Martin (1906 : 70–71) mentions types of *M. cingulata* Rambur (of which *whitei* is a synonym) in the Selys Collection, but not of *whitei*. I do not know of any previous designation of a type for this species and have therefore selected our ♂ (as above) as Lectotype.

**wollastoni** Campion (**Synthemis**), 1915 : 486–488, figs. 38–39. Holotype ♀. Dutch New Guinea, A. F. R. Wollaston/Snow Mts. 4,000 to 6,000 ft., i–ii.1913/Synthemis wollastoni Cmpn., ♀ Holotype, Determined by H. Campion.

The description gives the additional data, Utakwa River, not mentioned on the printed labels.

**xanthosticta** Tillyard (ssp. of **Metathemis nigra**), 1913b : 230–231. LECTOTYPE ♂. Tambourine, Q[ueensland], R. J. Tillyard, 5.i.1913/Metathemis nigra xanthosticta Till., ♂ Lectotype, D. E. Kimmins det. 1968.

Currently placed as *Eusynthemis nigra xanthosticta* (Tillyard).

**zeylanica** Fraser (**Macromia**), 1927. Kimmins, 1966 : 219.

## REFERENCES

BARNARD, K. H. 1933. A new genus of Corduline Dragonfly from South Africa (Odonata). *Stylops* **2** (7) : 165-168, figs. 1-2.

CALVERT, P. P. 1901-1908. Odonata in *Biologia Centrali-Americanana*: 17-420, pls. 2-10. London.

CAMPION, H. 1915. Report on the Odonata collected by the British Ornithologists' Union Expedition and the Wollaston Expedition in Dutch New Guinea. *Trans. zool. Soc. Lond.* **20** (15) : 485-492, text-figs. 38-40.

— 1917. On Fabricius's Types of Odonata in the British Museum (Natural History). *Ann. Mag. nat. Hist.* (8) **19** : 441-450.

— 1921. Odonata collected in New Caledonia by the late Mr. Paul D. Montague. *Ann. Mag. nat. Hist.* (9) **8** : 33-67, pls. 8-9, text-figs. 1-11.

— 1923. A new form of *Indothemis limbata* from Ceylon (Odonata). *Ann. Mag. nat. Hist.* (9) **11** : 28-31, 1 text-fig.

FABRICIUS, J. C. 1775. *Systema Entomologiae sistens Insectorum Classes, Ordines, Genera, Species, etc.* pp. 420-426. Flensburgi et Lipsiae.

— 1781. *Species Insectorum exhibentes eorum differentias specificas, synonyma auctorum, loca natalia, metamorphos, etc.*, **1** : 519-528. Hamburgi et Kilonii.

— 1787. *Mantissa Insectorum etc.* **1**. Hafniae.

— 1793. *Entomologia Systematica emendata et aucta*, **2** : viii + 519. Hafniae.

FRASER, F. C. 1926. A revision of the genus *Idionyx* Selys. *Rec. Indian Mus.* **28** : 195-207, pls. 8-10.

GARDNER, A. E. 1958. Aspects of the fauna and flora of the Azores. xii(a). Odonata. *Ann. Mag. nat. Hist.* (13) **1** : 791-792.

KIMMINS, D. E. 1936. Odonata, Ephemeroptera and Neuroptera of the New Hebrides and Banks Island. *Ann. Mag. nat. Hist.* (10) **18** : 68-88, 11 text-figs., pl. 3.

— 1936a. The Odonata of the Oxford University Sarawak Expedition. *J. fed. Malay St. Mus.* **18** (1) : 65-108, 17 text-figs.

— 1942. The type of *Allorhizucha campioni* Ris (Odonata, Libellulinae). *Entomologist* **75** : 47.

— 1943. A new South American Dragonfly. *Ann. Mag. nat. Hist.* (11) **10** : 156-159, figs. 1-6.

— 1953. Miss L. E. Cheesman's Expedition to New Caledonia, 1949—Orders Odonata, Ephemeroptera, Neuroptera and Trichoptera. *Ann. Mag. nat. Hist.* (12) **6** : 241-257, 24 text-figs.

— 1957. Some notes on nomenclature in the family Libellulidae (Odonata). *Entomologist* **90** : 95-97.

— 1958. New species and subspecies of Odonata. *Bull. Br. Mus. nat. Hist. (Ent.)* **7** (7) : 347-358, 7 text-figs.

— 1966. A list of the Odonata Types described by F. C. Fraser, now in the British Museum (Natural History). *Bull. Br. Mus. nat. Hist. (Ent.)* **18** (6) : 173-227.

KIRBY, W. F. 1884. On the Neuroptera collected during the recent expedition of H.M.S. *Challenger*. *Ann. Mag. nat. Hist.* (5) **13** : 453-456.

— 1886. On a small collection of Dragonflies from Murree and Campbellpore (N.W. India), received from Major J. W. Yerbury, R.A. *Proc. zool. Soc. Lond.* **1886** : 325-329, pl. 33.

— 1889. A revision of the subfamily Libellulinae, with descriptions of new genera and species. *Trans. zool. Soc. Lond.* **12** (9) : 249-348, pls. 51-57.

— 1889a. Descriptions of new genera and species of Odonata in the collection of the British Museum, chiefly from Africa. *Proc. zool. Soc. Lond.* **1889** : 297-303.

— 1890. Description of a new species of Dragonfly. *Ann. Mag. nat. Hist.* (6) **5** : 112-113.

— 1893. Catalogue of the described Neuroptera Odonata (Dragonflies) of Ceylon, with descriptions of new species. *J. Linn. Soc., Zool.* **24** : 545-566, pls. 41-42.

— 1894. On a small collection of Odonata (Dragonflies) from Queensland, with descriptions of five new species. *Ann. Mag. nat. Hist.* (6) **14** : 15-21.

KIRBY, W. F. 1894a. Descriptions of a new species of Dragonfly (*Dythemis Broadwayi*) from Trinidad. *Ann. Mag. nat. Hist.* (6) **14** : 227-228.

— 1894b. On some small collections of Odonata (Dragonflies) recently received from the West Indies. *Ann. Mag. nat. Hist.* (6) **14** : 261-269.

— 1894c. Notes on a small collection of Odonata etc. from Upper Burma, with the description of a new species. *Ann. Mag. nat. Hist.* (6) **14** : 111-113.

— 1896. On some Dragonflies obtained by Mr. and Mrs. Lort-Phillips in Somaliland. *Proc. zool. Soc. Lond.* **1898** : 521-523.

— 1897. List of the Neuroptera collected by Mr. E. E. Austen on the Amazons etc. during the recent expedition of Messrs. Siemens Bros. Cable S.S. *Faraday*, with descriptions of several new species of Odonata (Dragonflies). *Ann. Mag. nat. Hist.* (6) **19** : 598-617, pls. 12-13.

— 1898. On a collection of Dragonflies from the Transvaal and Nyasaland. *Ann. Mag. nat. Hist.* (7) **2** : 229-245.

— 1899. On a collection of Odonata (Dragonflies) from Panama. *Ann. Mag. nat. Hist.* (7) **3** : 362-371, pl. 15.

— 1900. Report on the Neuroptera Odonata collected by Mr. E. E. Austen at Sierra Leone during August and September 1899. *Ann. Mag. nat. Hist.* (7) **6** : 67-79, pl. 2 and 2 text figs.

— 1900a. On a small collection of Odonata (Dragonflies) from Hainan, collected by the late John Whitehead. *Ann. Mag. nat. Hist.* (7) **5** : 530-539, pl. 12.

— 1905. List of a small collection of Odonata (Dragonflies) from Ceylon, collected by Mr. E. Ernest Green, with notes on the genus *Zygonidia* and its allies, and descriptions of new species of *Zygonidia* Kirby, and *Onychothemis* Brauer, from Ceylon and Tonkin. *Ann. Mag. nat. Hist.* (7) **15** : 270-278.

— 1905a. List of a collection of Neuroptera Odonata (Dragonflies) formed by G. A. K. Marshall, Esq., at Salisbury, Mashonaland, with descriptions of a new genus and two new species. *Ann. Mag. nat. Hist.* (7) **15** : 190-193.

— 1909. Ruwenzori Expedition Reports. 7. Neuroptera. *Trans. zool. Soc. Lond.* **19** (1) : 59-62.

LAIDLAW, F. F. 1912. On a new genus and species of Odonata from Sarawak. *Sarawak Mus. J.* **1** (2) : 1-3, pl. 1.

— 1915. Contributions to a study of the Dragonfly fauna of Borneo.—Part III. A collection made on Mount Kina Balu by Mr. J. C. Moulton in September and October, 1913. *Proc. zool. Soc. Lond.* **1915** : 23-39, text-figs. 1-5.

— 1922. Notes on some oriental Dragonflies: the genus *Macromia*. *Journ. Straits Br. R. Asiatic Soc.* **85** : 218-229, 7 figs.

— 1923. A survey of the dragonfly fauna of the Malay Peninsula, with notes on that of neighbouring countries. Part I. *J. Malayan Br. R. Asiatic Soc.* **1** : 319-333, figs.

— 1928. Notes on Oriental Dragonflies (Odonata), with descriptions of new species. *Proc. zool. Soc. Lond.* **1928** : 129-138, 3 text-figs.

LIEFTINCK, M. A. 1929. A revision of the known malaysian Dragonflies of the genus *Macromia* Rambur, with comparative notes on species from neighbouring countries and descriptions of new species. *Tijdschr. Ent.* **72** : 59-108, 22 figs.

— 1953. Revisional notes on the genera *Diplacina* Brauer and *Huonia* Förster (Odon.). *Treubia* **22** (1) : 153-216, 23 text-figs.

— 1953a. Revision of the Australasian species of *Synthemis* Selys (Odon. Corduliidae), with descriptions of four new species and a key to their identification. *Idea* **9** (3-4) : 70-88, 14 figs.

— 1955. Two new species of *Lanthanusa* Ris, from the high mountains of New Guinea (Odonata). *Zoöl. Meded. Leiden* **33** (18) : 157-164, 9 text-figs.

LONGFIELD, C. 1932. A new species of the genus *Urothemis* from Southern Arabia, and some comments on the species of Odonata inhabiting the Qara Mountains. *Stylops* **1** : 34-35.

— 1936. Studies on African Odonata, with synonymy and descriptions of new species and subspecies. *Trans. R. ent. Soc. Lond.* **85** : 467-498, 10 text-figs.

LONGFIELD, C. 1947. The Odonata of South Angola. *Archos Mus. Bocage* **16** : 1-31, 11 figs.

— 1953. The *Atoconeura* problem (Odon., Libellulidae). *Entomologist* **86** : 42-49, pl. 1.

— 1955. The Odonata of North Angola. Part I. *Publ. c̄es cult. Co. Diam. Angola* **27** (1) : 13-63, 10 figs.

— 1959. The Odonata of North Angola. Part II. *Publ. c̄es cult. Co. Diam. Angola* **45** : 13-42, 6 text-figs.

McLACHLAN, R. 1881. Description of a new species of Corduliina (*Gomphomacromia fallax*) from Ecuador. *Trans. ent. Soc. Lond.* **1881** : 141-142.

— 1883. Neuroptera of the Hawaiian Islands. Part I. Pseudo-Neuroptera. *Ann. Mag. nat. Hist.* (5) **12** : 226-240.

— 1883a. Description d'une espèce nouvelle de Corduline du sousgenre *Syncordulia*. *C.r. Soc. ent. Belg.* **27** : xc-xci.

— 1886. Two new species of Cordulina. *Entomologists' mon. Mag.* **23** : 104-105.

— 1892. Supplementary note on the Neuroptera of the Hawaiian Islands. *Ann. Mag. nat. Hist.* (6) **10** : 176-179.

— 1894. On two small collections of Neuroptera from Ta-chien-lu, in the province of Szechuen, Western China, on the frontier of Thibet. *Ann. Mag. nat. Hist.* (6) **13** : 412-436.

— 1894a. Some additions to the neuropterous fauna of New Zealand, with notes on certain described species. *Entomologists' mon. Mag.* (2) **5** : 238-243, 270-272.

NUNNEY, W. H. 1895. A new West-African Insect. *Ann. Mag. nat. Hist.* (6) **16** : 349-351.

PINHEY, E. C. G. 1952. Three new species of Odonata from Eastern Africa. *Occ. Pap. Coryndon meml Mus.* **3** : 13-16, fig. 5.

— 1955. Some dragonflies of East and Central Africa and a rarity from Mauritius. *Occ. Pap. Coryndon meml Mus.* **4** : 17-41, pls 2-3, 9 text-figs.

— 1958. Records of Dragonflies from the Zambezi and Rhodesia; a revision of the genus *Platycypha*; a gynandromorph dragonfly from Uganda. *Occ. Pap. natn. Mus. Sth Rhodesia* **22B** : 97-116, 7 text-figs.

— 1961. *A Survey of the Dragonflies (Order Odonata) of Eastern Africa.* viii + 214 pp., 11 pls., 2 text-figs. British Museum (Nat. Hist.), London.

RIS, F. 1909-1919. Libellulinae, Catalogue systématique et descriptif. *Coll. zool. Selys-Longchamps*, Bruxelles, fasc. **IX-XVI**, 1,278 pp., 8 pls., 692 text-figs.

— 1915a. New Dragonflies (Odonata) of the subfamily Libellulinae from Sierra Leone, W. Africa. *Ann. Mag. nat. Hist.* (8) **15** : 213-223.

— 1921. The Odonata or Dragonflies of South Africa. *Ann. S. Afr. Mus.* **19** : 245-452, pls. 5-12, 77 text-figs.

SELYS-LONGCHAMPS, E. DE. 1871. Synopsis des Cordulines. *Bull. Acad. r. Sci. Belg.* (2) **31** : 238-316.

— 1871a. Synopsis des Cordulines (Suite). Deuxieme Légion.—*Macromia*. *Bull. Acad. r. Sci. Belg.* (2) **31** : 519-565.

— 1872. Note sur plusieurs Odonates de Madagascar et des îles Mascareignes. *Rev. Mag. Zool.* (2) **23** : 175-183.

— 1874. Additions au Synopsis des Cordulines. *Bull. Acad. r. Sci. Belg.* (2) **37** : 16-34.

— 1878. Considerations sur la faune de la Nouvelle Guinée, des Moluques et de la Célebes. *Mitt. K. zool. mus. Dresden* **1878** : 289-322.

— 1879. Description of a new species of *Phyllomacromia* (Corduliina) from West Africa. *Entomologists' mon. Mag.* **16** : 103-104.

— 1881. *Neophya* Selys, nouveau genre de Cordulines. *C.r. Soc. ent. Belg.* **25** : xv-xviii, 1 fig.

— 1883. Les Odonates du Japon. *Ann. Soc. ent. Belg.* **27** : 82-143.

— 1887. Revision des Odonates de l'Asie septentrionale, du Japon et de l'Afrique septentrionale. *Ann. Soc. ent. Belg.* **31** : 50-68.

— 1888. Odonates recueillis aux îles Loo-Choo par feu M. Pryer. *C.r. Soc. ent. Belg.* (3) **101** : xlvi-111.

TILLYARD, R. J. 1906. New Australian species of the family Libellulidae. *Proc. Linn. Soc. N.S.W.* **31** : 480-492, pl. 44.

TILLYARD, R. J. 1907. The Dragonflies of South-western Australia. *Proc. Linn. Soc. N.S.W.* **32** : 719-742, pls. 34-36.

— 1908. On some remarkable Australian Libellulinae. *Proc. Linn. Soc. N.S.W.* **33** : 637-649, pl. 14.

— 1908a. On the genus *Nannodythemis*, with descriptions of new species. *Proc. Linn. Soc. N.S.W.* **33** : 444-445, pl. 6.

— 1908b. On some remarkable Australian Corduliinae, with descriptions of new species. *Proc. Linn. Soc. N.S.W.* **33** : 737-751, pls. 21-22.

— 1910. Monograph of the genus *Synthemis*. *Proc. Linn. Soc. N.S.W.* **35** : 312-377, pls. 4-9.

— 1911. Further notes on some rare Australian Corduliinae, with descriptions of new species. *Proc. Linn. Soc. N.S.W.* **36** : 366-387, pl. 10.

— 1911a. On the genus *Cordulephya*. *Proc. Linn. Soc. N.S.W.* **36** : 388-422, pls. 11-12.

— 1913. On some Australian Anisoptera, with descriptions of new species. *Proc. Linn. Soc. N.S.W.* **37** : 572-584, pl. 64.

— 1913a. Description and life history of a new species of *Nannophlebia*. *Proc. Linn. Soc. N.S.W.* **37** : 712-726, pl. 74.

— 1913b. Some descriptions of new forms of Australian Odonata. *Proc. Linn. Soc. N.S.W.* **38** : 229-241, pl. 15.

— 1917. On some new dragonflies from Australia and Tasmania [Order Odonata]. *Proc. Linn. Soc. N.S.W.* **42** : 450-479, pl. 23 and 10 text-figs.

WHITE, A. 1846-1874. In *The Zoology of the Voyage of H.M.S. Erebus and Terror, under the command of Captain Sir James Clark Ross, R.N., F.R.S., during the years 1839 to 1843*. Ed. Richardson, J. & Gray, J. E. **2**. Insects, p. 25. London.

